

# ANNUAL REPORT

OF THE

## PUBLIC WORKS DEPARTMENT



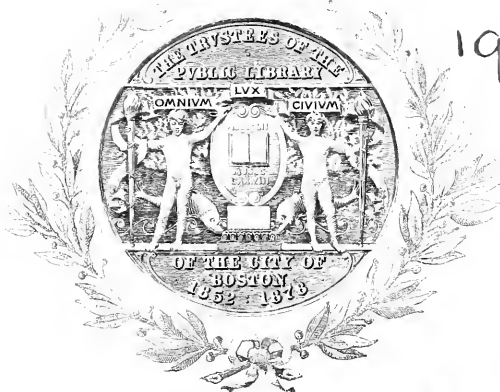
OF THE

CITY OF BOSTON

1926

No 6355.53

1926



GIVEN BY

Public Works Department







ANNUAL REPORT  
OF THE  
PUBLIC WORKS DEPARTMENT  
FOR THE  
YEAR 1926

COMPLIMENTS OF

JAMES H. SULLIVAN,

Commissioner of Public Works

PLEASE EXCHANGE

PRINTING DEPARTMENT

1927

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ANNUAL REPORT

OF THE

PUBLIC WORKS DEPARTMENT

FOR THE

YEAR 1926



CITY OF BOSTON  
PRINTING DEPARTMENT

1927

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ANNUAL REPORT  
OF THE  
**PUBLIC WORKS DEPARTMENT**  
FOR THE  
YEAR ENDING DECEMBER 31, 1926.

Boston, January 1, 1927.

HON. MALCOLM E. NICHOLS,  
*Mayor of Boston.*

DEAR SIR,— In compliance with the Revised Ordinances, the annual report of the operations and expenses of the Public Works Department for the year ending December 31, 1926, is respectfully submitted. The Public Works Department, created by Ordinances 1910, chapter 9, now chapter 27 of the Revised Ordinances of 1925, was formed by consolidating the Engineering, Water and Street Departments.

ORGANIZATION.

The department is composed of five main divisions, viz.:

*Central Office.*— The Central Office is composed of the accounting force of the entire department under the charge of the secretary and chief clerk.

*Bridge and Ferry Division.*— This division, under a division engineer, has the charge and care of all bridges used as highways which are in whole, or in part, under

the control of the city; the care and management of the ferries owned by the city, including boats, slips, drops and buildings.

NOTE. — The Boston and Cambridge Division, so called, is not, strictly speaking, a division of the Public Works Department, as this work is in charge of a commission of two, one member appointed by the Mayor of Boston and the other by the Mayor of Cambridge, under the provisions of chapter 412 of the Acts of 1904; but because of the fact that the present Commissioner of Public Works is the Boston member of this commission and also because one half of the expense of this commission is defrayed by the Bridge Service, it is in this report treated as a division of this department.

*Highway Division.*— This division, under a division engineer, has the care of the construction, reconstruction and maintenance of roadways and sidewalks, and the care of lamps and the lighting of streets, parks and alleys.

*Sewer and Sanitary Division.*— This division, under a division engineer, has charge of the construction of sewers, catch-basins and waterways; the collection and removal of ashes, garbage and refuse; street cleaning, and the oiling and watering of streets.

*Water Division.*— This division, under a division engineer, has the care of water pipes, installation of meters, water service, laying and relaying of water mains and the high pressure fire service.

#### GENERAL.

*Bridge and Ferry Division.*— The bridge over the New York, New Haven & Hartford Railroad tracks at Massachusetts avenue was rebuilt of steel, with concrete floor slab and granite block paving.

The widening of the Tremont Street Bridge over the tracks of the New York, New Haven & Hartford Railroad at Arlington square, as part of the general widening of Tremont street, was completed. This work comprised steel girders with steel and concrete floor and granite block paving.

Plans were prepared and a decree obtained from the Department of Public Utilities for the rebuilding of Broadway Bridge over the tracks of the New York, New Haven & Hartford Railroad. Early next year

bids will be received for the construction of a steel bridge with concrete floor and granite block paving.

A decree has been obtained from the Public Utilities Commission as to the necessity of rebuilding the bridge over the New York, New Haven & Hartford Railroad tracks at West Newton street. Plans have been prepared for a bridge of steel with concrete floor and granite block paving, and bids will be received before the end of the year.

A number of bridges were painted during the year, the largest job being Charlestown Bridge. Maintenance repairs were made on bridges, and considerable work was done on the draw foundations of Warren Bridge.

The department has continued the policy of removing the planking on bridges and substituting surfaces of more durable character, such as wood block paving, thereby reducing maintenance costs.

Two steel ferryboats, built by the Bethlehem Shipbuilding Corporation, have been put into service. These boats, of stouter construction and with more powerful engines than the older boats, have four drive-ways for vehicles and are equipped with 1,500-gallon pumps for use as auxiliary fireboats.

A new ferry bridge was built on the Boston side of the North Ferry. This structure is of the new type, electrically operated, with gallows frame and a roadway wide enough to accommodate two vehicles abreast. Loading and unloading the boats will be greatly expedited by this installation.

*Water Division.*—Water pipe laying, in response to petitions, in the continued development of areas in Brighton, West Roxbury and Dorchester amounted to approximately 10.2 miles. To improve the fire protection in some of the congested areas, smaller pipe to the extent of 7,300 linear feet were replaced with 8 and 12 inch sizes. Building conditions have kept pace with last year's activities, more than 2,000 service pipe applications having been received.

The metering of the city is practically completed, and during the year 1,184 meters were set on old services and 1,583 on new services.

The contract for extending through Commonwealth avenue, the Public Garden and Boston Common the 48-inch water main which ended at Massachusetts and Commonwealth avenues was completed in May, and

the resultant improvement in increased and constant pressure on the low service system has justified the necessity of this extension.

Another necessary improvement started during the year was the construction of a 48-inch low service water main in Charles street, Columbus avenue and Arlington street, connecting the 40-inch main in Beacon street and the new 48-inch main through the Public Garden with the two 30-inch mains in Tremont street. This 48-inch main is to be carried under the tracks of the Boston & Albany and New York, New Haven & Hartford Railroads in a tunnel to be built 40 feet below the tracks. The work started in October will be completed in the early part of next year.

The construction of the so-called Southern Artery will make necessary certain changes in the water distribution system, and will require the laying of about 2,800 feet of 16-inch and 3,000 feet of 24-inch pipe.

A secondary high service main which is badly needed to improve water pressure conditions in the higher sections such as Elm Hill, etc., will probably be started during the coming summer, provided the Metropolitan District Commission completes the laying of their 48-inch supply main from Chestnut Hill pumping station through Brookline to the Boston line in West Roxbury. From this point the city will continue the main through Jamaica Plain and Franklin Park and connect with the present 36-inch high service main in Geneva avenue. This construction is urgent and as soon as possible after completion of the state work it will be started.

The extra high service area of West Roxbury, supplied from Mt. Bellevue tank, is to be reinforced by the laying of 5,000 feet of 16-inch pipe in West Roxbury Parkway, which is now nearing completion.

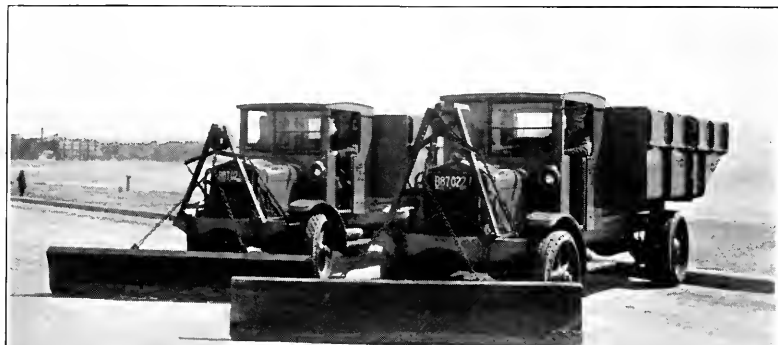
An important development by the Metropolitan District Commission of the continuance of the Charles River Reservation, between Cambridge street and Bay State road, and for which the money has been appropriated by the Legislature, will call for the laying of 5,000 linear feet of 16-inch main pipe, undoubtedly during the latter part of next summer.

*Sewer Division.*—In the Sewer Service 14.58 miles of sewers and surface drains and 326 catch-basins were built during the year.

Most of the sewerage works built from the Sewerage



TWENTY WHITE TRUCKS WITH CHAMPION BLADE PLOWS.



TWENTY MACK TRUCKS WITH CHAMPION BLADE PLOWS—SHOWING  
BALLAST BOXES.

TEN AMERICAN-LAFRANCE TRUCKS WITH CHAMPION BLADE PLOWS.



TEN G. M. C. TRUCKS WITH BAKER BLADE PLOWS.

TWO BEST & HOLT TRACTORS WITH SARGENT PLOWS.



THREE MEAD-MORRISON TRACTORS WITH WALSH "V" PLOWS.

ONE MONARCH TRACTOR WITH CHAMPION BLADE PLOW.



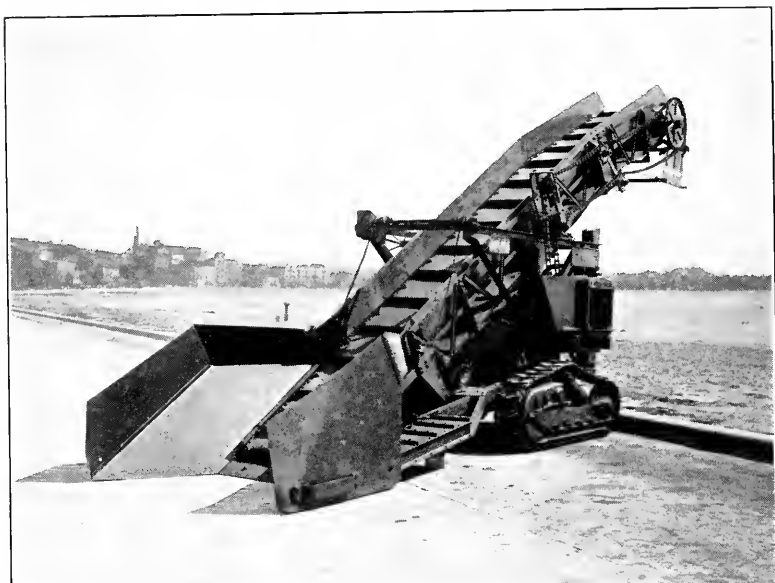
ONE REO EMERGENCY TRUCK AND TWO FORDSON

NINE PIERCE ARROW TRUCKS.



ONE AMERICAN-LAFRANCE TRUCK WITH CHAMPION BLADE PLOW.

SIX BARBER GREENE SNOW LOADERS.



TWO NELSON SNOW LOADERS.



ONE MACK WRECKER.—A REPAIR SHOP ON WHEELS.





Works loan were on petitions of abutters. The most important work built was in Liberty square and Parkman street, city proper; a section of 17 feet by 13 feet 9 inches concrete Stony brook conduit in Brookstone street; the 3-foot 3-inch circular concrete conduit for Goldsmith brook and the removal of 9,500 cubic yards of material from 6,800 feet of the open channel of Canterbury branch of Stony brook, West Roxbury.

At the Calf Pasture pumping station the steam turbines on No. 1 and No. 2 pumps were replaced by four Westinghouse electric motors of 275 horse power each. Three of the boilers were equipped with Petro mechanical atomizing oil burners.

*Sanitary Division.*—The equipment of the Sanitary Service has been very substantially increased by the addition of four Springfield pick-up sweepers, 60 large 7-ton trucks, 50 snow plows, 3 snow loaders, 3 tractors and plows and 1 Sargent plow.

This addition to our motor equipment has aided very materially in the removal of snow in the downtown districts and the opening of the streets throughout the city. At no time in previous years have our streets been so quickly opened to traffic and the snow removed as during the past year.

In addition, the efficiency reflected in the handling of snow has been noticeable in the collection of ashes and garbage, due to the new trucks, tractors, etc.

Six pressure flushers were furnished by contract for flushing the streets during the year. This method of flushing is of great assistance to the Street Cleaning Service, keeping the street surfaces clean and sanitary.

The lack of care on the part of citizens to observe the city ordinances, thereby littering the streets with paper and rubbish, is the cause of much expense to the Street Cleaning Service. These ordinances were framed for the purpose of assisting this department, but no great move has been made in their enforcement.

The disposal of ashes and garbage is becoming of vital importance, not only in the suburban districts where we have contract disposal, but also in the city proper where the contract with the Coleman Disposal Company has five years to run.

Considerable agitation is under way relative to the Fort Hill Wharf, the city disposal plant in Atlantic avenue. The erection of modern structures for office

and industrial purposes contiguous to this station may, for sanitary reasons, demand a relocation where the disposal activities would be less objectionable.

*Highway Division.*— During the year 28 streets were laid out by the Board of Street Commissioners under chapter 393 of the Acts of 1906 and also special acts under which authority the following were completed: Cambridge street, from Charles to Brattle streets; Tremont street, from Stuart street to Arlington square, and Morton street, from Morton road to Canterbury street, and considerable progress made with Dock square and Kneeland street improvements.

The appropriation for the repair and reconstruction of streets provided for the repairing of the following streets in the down-town business section: Franklin, Devonshire, Otis, High and Purchase streets. In the Roxbury district: Huntington avenue, from the Fenway to the Brookline line; Washington street, from Northampton to Williams streets; Warren street, from Dale to Quincy streets, and a contract awarded to relay in Harrison avenue, from Northampton to Warren streets; in the Dorchester district portions of Adams street, Blue Hill avenue and Boston street.

*Street Lighting Service.*— The requests for white way lighting from the local improvement societies in about all sections of the city are quite numerous but, as the installation of white way lighting runs into money, it will be necessary to provide additional funds if any more extensions are made.

The most extensive white way installation this year was on Massachusetts avenue, between Columbus avenue and Harvard Bridge, comprising fifty-one 1,500 candle power incandescent lamps.

The following table shows the number of lamps of various types in use on January 1, 1927:

9,817	Single mantle gas lamps.
145	Fire alarm gas lamps.
5,978	Magnetite series.
5,226	Tungsten incandescent.

#### APPROPRIATIONS.

The money assigned for the maintenance work of the Public Works Department during the year 1926, was derived from the income of the city raised by taxation. In December, 1925, the department estimates were sub-

mitted to the Mayor. The estimates were made in segregated form to the Mayor, who made such allowance for each item in the budget as he considered necessary and submitted them to the City Council. The total maintenance appropriations as passed by the City Council and approved by the Mayor are shown below. On another page will be found the total expenditures by each service for each item in the segregated budget:

Central Office	.	.	.	.	.	.	.	\$92,360 72
Bridge Service	.	.	.	.	.	.	.	470,577 14
Ferry Service	.	.	.	.	.	.	.	523,021 57
Lighting Service	.	.	.	.	.	.	.	928,584 70
Paving Service	.	.	.	.	.	.	.	1,968,699 92
Sanitary Service	.	.	.	.	.	.	.	3,129,825 53
Sewer Service	.	.	.	.	.	.	.	712,784 62
Water Service	.	.	.	.	.	.	.	1,538,305 83
<hr/>								
Total	.	.	.	.	.	.	.	<u>\$9,374,160 03</u>

Yours respectfully,

J. H. SULLIVAN,  
*Commissioner of Public Works.*

**Expenditures Under the Maintenance Appropriation of the  
From January 1, 1926,**

GROUP AND ITEM.	Central.	Bridge.	Ferry.
<b>A. PERSONAL SERVICE AS PER SCHEDULE A:</b>			
1. Permanent employees.....	\$82,127 57	\$336,408 12	\$317,025 26
2. Temporary employees.....		16,919 46	21,638 26
3. Unassigned.....		5,651 12	7,137 93
<b>B. SERVICE OTHER THAN PERSONAL:</b>			
1. Printing and binding.....	518 80		505 50
3. Advertising and posting.....			53 20
4. Transportation of persons.....	112 19	644 67	108 19
5. Cartage and freight.....		15 03	283 44
6. Hire of teams and auto trucks.....		34 50	4,034 25
8. Light, heat and power.....		9,483 51	9,249 41
10. Rent, taxes and water.....		320 86	459 34
12. Bond and insurance premiums.....	5 00		94 00
13. Communication.....	8 00	294 72	270 02
14. Motor vehicle repairs and care.....	32 01	2,237 71	
15. Motorless vehicle repairs.....			191 50
16. Care of animals.....			
18. Cleaning.....		15 00	36 00
19. Removal of ashes, dirt and garbage.....			
20. Disposal of ashes, dirt and garbage.....			
21. Removal of snow.....			
28. Expert.....	841 29		100 00
35. Fees, service of venires, etc.....	15 00	70 00	53 00
37. Photographic and blueprinting.....			56 50
39. General plant.....	128 25	31,882 27	57,837 05
42. Repairing streets.....			
<b>C. EQUIPMENT:</b>			
2. Machinery.....			
3. Electrical.....			
4. Motor vehicles.....	2,105 07	3,336 56	
5. Motorless vehicles.....			
6. Stable.....			
7. Furniture and fittings.....		39 11	42 30
9. Office.....	87 08	400 00	129 75
11. Marine.....			333 85
13. Tools and instruments.....		4,114 67	3,106 75

Several Services by Items of the Segregated Budget.  
to December 31, 1926.

Lighting.	Paving.	Sanitary.	Sewer.	Water.	Totals.
\$6,909 70	\$1,043,628 47	\$1,604,583 70	\$399,359 40	\$891,929 74	\$4,681,971 96
.....	108,205 94	83,148 22	4,451 82	5,161 32	239,525 02
.....	84,491 95	129,720 49	18,370 82	34,560 43	279,932 74
.....	.....	550 00	151 20	39 25	1,764 75
.....	88 15	80 25	25 00	74 25	320 85
26 10	1,418 57	243 40	1,514 98	8,190 27	12,258 37
.....	13 89	12 57	7 62	61 29	393 84
.....	65,780 35	139,184 36	722 00	245 71	210,001 17
915,124 05	1,757 07	4,819 08	31,701 03	5,064 08	977,198 43
.....	2,822 00	1,972 50	844 56	569 75	6,989 01
.....	12 00	3 00	.....	50 00	164 00
.....	2,004 60	1,570 33	786 44	2,064 37	6,998 48
142 81	12,681 19	18,658 78	2,370 94	9,415 45	45,538 89
.....	1,071 65	17,156 67	42 85	109 40	18,572 07
.....	4,526 90	7,918 65	124 32	562 10	13,131 97
.....	178 20	266 85	88,664 95	47 70	89,208 70
.....	.....	422,466 55	.....	.....	422,466 55
.....	51 25	356,339 85	212 75	128 50	356,732 35
.....	403,856 37	.....	.....	.....	403,856 37
.....	.....	.....	204 00	391 80	1,537 09
10 00	964 00	1,093 00	293 50	1,178 70	3,677 20
.....	26 50	24 00	.....	.....	107 00
1,688 44	11,742 19	9,764 03	18,427 97	63,135 83	194,606 03
.....	12,941 94	.....	1,362 09	64,112 08	78,416 11
.....	69 50	.....	.....	.....	69 50
.....	.....	.....	.....	10 56	10 56
101 38	36,192 62	53,236 43	9,857 95	24,122 27	128,952 28
.....	.....	657 00	.....	.....	657 00
.....	845 51	1,476 85	84 30	80 10	2,486 76
.....	58 50	106 25	.....	269 45	515 61
.....	.....	.....	.....	98 25	715 08
.....	.....	.....	.....	.....	333 85
.....	22,334 75	6,795 15	1,015 01	60,610 45	97,976 178

**Expenditures Under the Maintenance Appropriation of the  
From January 1, 1926,**

GROUP AND ITEM.	Central.	Bridge.	Ferry.
<b>C. EQUIPMENT:</b>			
14. Live stock.....			
16. Wearing apparel.....			\$112 50
17. General plant.....		\$1,426 51	
<b>D. SUPPLIES:</b>			
1. Office.....	\$2,977 22	2,260 81	1,350 05
2. Food and ice.....		84 64	65 10
3. Fuel.....		4,901 87	66,828 14
4. Forage and animal.....			
5. Medical, surgical, laboratory.....			
8. Laundry, cleaning, toilet.....	1 84	155 75	412 81
11. Motor vehicle.....	49 73	1,608 65	
13. Chemicals and disinfectants.....		21	202 70
16. General plant.....		1,246 00	3,883 51
<b>E. MATERIALS:</b>			
1. Building.....		356 23	125 80
2. Highway.....			
3. Bridges.....		34,192 54	
4. Ferries.....			10,324 64
5. Sewer.....			
6. Water.....			
9. Machinery.....		253 43	
10. Electrical.....		1,405 20	1,284 14
13. General plant.....		24 47	
<b>F. SPECIAL ITEMS:</b>			
2. Damages.....			
7. Pensions and annuities.....		4,703 53	8,462 13
11. Workingmen's compensation.....		60 00	521 43
<b>Totals.....</b>	<b>\$89,009 05</b>	<b>\$464,547 15</b>	<b>\$516,316 65</b>

Several Services by Items of the Segregated Budget.—Concluded.  
to December 31, 1926.

Lighting.	Paving.	Sanitary.	Sewer.	Water.	Totals.
.....	.....	\$3,825 00	\$325 00	.....	\$4,150 00
.....	\$28 84	133 01	749 68	\$430 80	1,454 83
\$3,058 50	1,076 82	1,662 00	3,194 11	351 07	10,769 01
143 02	7,353 60	3,911 65	2,082 32	10,073 98	30,152 65
.....	1,145 48	5,514 78	454 25	68 32	7,332 57
.....	13,527 43	4,280 44	60,416 31	1,720 44	151,672 63
.....	11,213 22	84,589 77	985 30	3,190 75	99,979 04
.....	.....	.....	9 39	.....	9 39
.....	136 90	63 90	240 67	155 10	1,166 97
125 94	16,929 91	18,100 00	3,630 36	10,111 37	50,555 96
.....	106 42	230 17	328 30	45 54	913 34
.....	3,974 23	1,347 17	3,598 44	5,294 60	19,343 95
.....	2,015 51	392 18	2,079 28	268 51	5,237 51
.....	164,036 04	28,403 67	.....	.....	192,439 71
.....	.....	.....	.....	.....	34,192 54
.....	.....	.....	.....	.....	10,324 64
.....	.....	.....	13,414 46	.....	13,414 46
.....	.....	.....	.....	272,911 04	272,911 04
.....	.....	.....	.....	.....	253 43
.....	195 00	197 04	539 63	935 27	4,556 28
.....	18,571 42	43,511 05	9,639 54	2,913 81	74,660 29
.....	.....	.....	.....	9,366 19	9,366 19
.....	20,097 27	18,566 79	5,317 62	16,630 24	73,777 58
.....	4,536 80	18,885 26	1,276 28	4,657 45	29,937 22
\$927,329 94	\$2,089,589 45	\$3,095,461 84	\$688,876 44	\$1,511,407 58	\$9,382,538 10

**Personnel Expenditures Under the Maintenance Appropriation of the  
From January 1, 1926,**

GROUP AND ITEM.	Central.	Bridge.	Ferry.
Commissioner .....	\$9,000 00	.....	.....
Division engineers .....	.....	\$3,750 00	\$1,250 00
Engineers in charge .....	.....	.....	.....
Clerks and stenographers .....	61,681 47	3,709 71	1,459 83
Address printers .....	.....	.....	.....
Blueprinters .....	4,453 49	.....	.....
Chauffeurs .....	1,669 33	5,409 78	455 00
Cement testers .....	5,200 00	.....	.....
Chief inspectors .....	.....	.....	.....
Chemist and assistant .....	.....	.....	.....
Cashiers .....	.....	.....	2,100 00
Constables .....	.....	.....	.....
Coal passers .....	.....	.....	.....
Captains .....	.....	.....	28,761 50
Deckhands .....	.....	.....	39,177 76
Drawtenders .....	.....	230,962 84	.....
Draughtsman .....	.....	7,075 04	.....
Engineers, assistants, civil .....	.....	16,510 48	27,877 50
Engineers (steam) .....	.....	.....	.....
Electricians .....	.....	1,909 30	1,909 30
Emergency men .....	.....	.....	.....
Feeders .....	.....	.....	.....
Foremen, general .....	.....	.....	3,159 69
Foremen .....	.....	2,200 00	.....
Subforemen .....	.....	5,568 00	.....
Gatemen (ferry) .....	.....	.....	25,090 22
Instrumentmen .....	.....	5,679 71	.....
Rodmen .....	.....	455 36	.....
Inspectors .....	.....	2,455 49	.....
Inspector, property .....	123 28	.....	.....
Joiners .....	.....	.....	2,000 00
Laborers, janitors, teamsters, watchman, stablemen, etc. ....	.....	18,082 85	28,592 04
Mechanics .....	.....	29,289 57	29,459 25
Masons .....	.....	.....	.....
Meter readers .....	.....	.....	.....



Several Services by Items of the Segregated Budget.  
to December 31, 1926.

Lighting.	Paving.	Sanitary.	Sewer.	Water.	Total.
					\$9,000 00
\$1,250 00	\$3,749 94	\$3,750 00	\$1,250 00	\$5,000 00	19,999 94
	466 14		2,000 00		2,466 14
3,859 70	34,033 54	5,059 42	7,445 00	85,252 43	202,501 10
				1,300 00	1,300 00
					4,453 49
	9,841 76	47,221 21	9,330 00	21,277 50	95,204 58
					5,200 00
	1,238 56			2,100 00	3,338 56
	50 22				50 22
				350 00	2,450 00
	2,119 48	2,344 83		3,141 06	7,605 37
			7,610 00		7,610 00
					28,761 50
					39,177 76
					230,962 84
	1,469 19		5,651 27	4,200 00	18,395 50
	7,337 52		7,975 14	16,103 13	75,803 77
	18,658 75		12,252 52	1,721 50	32,632 77
			3,818 60		7,637 20
				30,223 07	30,223 07
	1,533 50	13,801 50			15,335 00
	3,000 00		1,906 67		8,066 36
	24,000 00	46,600 00	5,682 96	26,838 36	105,321 32
	33,734 49			1,859 34	41,161 83
					25,090 22
	7,975 39		14,685 13	10,106 67	38,446 90
	632 05		1,369 14		2,456 55
1,800 00	49,063 36	138,806 14	43,466 54	61,446 15	297,037 68
	1,668 37				1,791 65
					2,000 00
	620,854 09	1,242,049 76	133,099 05	247,724 65	2,290,402 44
	200,903 54	78,869 02	41,258 25	294,711 54	674,491 17
				3,465 00	3,465 00
				48,691 77	48,691 77

**Personnel Expenditures Under the Maintenance Appropriation of the  
From January 1, 1926,**

GROUP AND ITEM.	Central.	Bridge.	Ferry.
Medical inspectors. ....		\$191 66	\$91 67
Oilers and firemen. ....			80,007 00
Quartermasters. ....			22,416 75
Sealers. ....			
Sewer gatemen, cleaners, etc. ....			
Supervisors. ....		3,158 33	
Supervisor, deputy. ....			
Storekeepers. ....			
Stockkeepers. ....			1,600 00
Superintendent and deputy. ....			
Telephone operators. ....			
Tollmen. ....			21,617 75
Veterinarian. ....			
Wharfingers. ....			
Weighers. ....			
Yardmasters. ....			
Yardmen. ....			
Permanent. ....	\$82,127 57	\$336,408 12	\$317,025 26
Temporary. ....		16,919 46	21,638 26
Unassigned. ....		5,651 12	7,137 93
Totals. ....	\$82,127 57	\$358,978 70	\$345,801 45

Several Services by Items of the Segregated Budget.— Concluded.  
to December 31, 1926.

Lighting.	Paving.	Sanitary.	Sewer.	Water.	Total.
.....	\$400 00	\$2,091 69	\$100 00	\$600 00	\$3,475 02
.....	7,440 00	.....	61,947 00	2,866 88	152,260 88
.....	.....	.....	.....	.....	22,416 75
.....	.....	.....	.....	4,695 00	4,695 00
.....	.....	.....	32,015 00	.....	32,015 00
.....	2,659 64	4,000 00	.....	1,496 04	11,314 01
.....	.....	3,500 00	.....	.....	3,500 00
.....	.....	1,600 00	.....	1,900 00	3,500 00
.....	.....	.....	.....	.....	1,600 00
.....	2,500 01	.....	3,300 00	6,762 31	12,562 32
.....	.....	1,355 87	.....	1,240 57	2,596 44
.....	.....	.....	.....	.....	21,617 75
.....	500 00	2,250 00	125 00	125 00	3,000 00
.....	.....	4,965 00	.....	.....	4,965 00
.....	1,559 63	1,600 00	.....	.....	3,159 63
.....	.....	1,600 00	.....	1,800 00	3,400 00
.....	6,239 30	3,119 26	3,072 13	4,931 77	17,362 46
\$6,909 70	\$1,043,628 47	\$1,604,583 70	\$399,359 40	\$891,929 74	\$4,681,971 96
.....	108,205 94	83,148 22	4,451 82	5,161 32	239,525 02
.....	84,491 95	129,720 49	18,370 82	34,560 43	279,932 74
\$6,909 70	\$1,236,326 36	\$1,817,452 41	\$422,182 04	\$931,651 49	\$5,201,429 72

The expenditures under the several appropriations for the different services for the year 1926 were as follows:

DIVISIONS AND SERVICES.	Current Expenses.	Special Appropriations.	Total Expenditures.	Balance December 31, 1926.
Central Office.....	\$89,009 05	.....	\$89,009 05	.....
Bridge Service.....	464,547 15	\$203,116 39	667,663 54	\$260,881 25
Ferry Service.....	516,316 65	712,020 25	1,228,336 90	<sup>1</sup> 368,044 01
Lighting Service.....	927,329 94	.....	927,329 94	.....
Paving Service.....	2,089,589 45	1,487,136 65	3,576,726 10	448,902 37
Sanitary Service.....	3,095,461 84	291,960 60	3,387,422 44	44,794 84
Sewer Service.....	688,876 44	966,480 73	1,655,357 17	<sup>2</sup> 1,053,602 30
Water Service.....	1,511,407 58	490,222 61	2,001,630 19	<sup>3</sup> 466,637 95
Totals.....	\$9,382,538 10	\$4,150,937 23	\$13,533,475 33	\$2,642,862 72

<sup>1</sup> Authorized, but not issued, \$250,000.

<sup>2</sup> Authorized, but not issued, \$650,000.

<sup>3</sup> Authorized, but not issued, \$200,000.

Cost of Maintenance of the Public Works Department Since 1917.

DIVISION AND SERVICES.	1918-19.	1919-20.	1920-21.	1921-22.	Special Account 1921-22.	1922-23.	1923-24.	1924-25.	1925. (11 months.)	1926.
Central Office.....	\$73,074 04	\$79,009 15	\$91,373 98	\$88,308 02	\$3,072 64	\$100,457 23	\$84,717 60	\$86,511 11	\$81,432 27	\$89,009 05
Bridge Service.....	323,601 28	363,130 05	410,216 53	392,589 05	15,805 42	382,413 98	387,220 23	426,330 81	396,596 57	445,564 07
Boston and Cambridge Bridges.....	23,942 63	26,390 52	26,783 42	27,999 77	2,433 95	27,669 10	30,832 74	31,740 49	19,309 12	18,983 08
Ferry Service.....	393,783 69	436,087 75	574,754 54	496,836 35	21,483 31	497,091 70	498,684 78	523,527 46	472,240 69	516,316 65
Lighting Service.....	549,350 56	714,821 55	722,134 24	722,091 55	134,127 03	734,039 09	747,191 63	830,736 90	820,768 34	927,329 94
Paving Service.....	1,006,628 46	1,063,059 16	1,023,332 59	1,110,496 07	34,869 68	925,828 45	1,140,939 74	1,208,503 43	1,240,788 13	2,252,030 79
Removal of Snow.....	138,659 39	78,802 12	663,111 55	215,399 21	6,611 10	416,720 51	364,713 64	349,375 57	75,494 95	1,234,123 87
Sanitary Service.....	1,106,933 20	1,265,581 65	1,508,102 71	1,629,078 98	105,288 95	1,831,685 38	1,895,984 45	2,073,913 32	1,877,228 67	2,050,603 65
Sewer Service.....	452,310 71	472,713 49	616,461 55	607,043 15	25,419 60	567,758 00	605,796 63	635,928 74	592,155 15	688,876 44
Street Cleaning Service.....	556,830 98	607,992 26	700,031 01	640,179 28	23,637 66	627,203 22	607,583 55	592,645 85	719,296 18	696,834 10
Street Watering and Oiling Service.....	137,150 39	118,014 00	186,763 20	145,454 29	491 24	122,865 88	108,842 33	79,476 90	53,420 88	51,458 88
Water Service.....	1,055,842 87	1,010,634 32	1,253,166 33	1,232,418 76	41,656 57	1,354,555 93	1,229,573 73	1,608,320 10	1,309,163 72	1,511,407 58
Totals.....	\$5,908,108 20	\$6,237,742 02	\$7,776,231 65	\$7,307,894 48	\$414,896 05	\$7,588,317 47	\$7,702,101 05	\$8,447,000 68	\$7,657,894 67	\$9,382,538 10

† Includes \$71,000 paid by Street Cleaning and Oiling Service.

‡ Includes \$92,445.71 paid by Street Cleaning and Oiling Service.

§ Includes \$142,724.96 paid by Street Cleaning and Oiling Service.

## REVENUES, 1926.

*On Account of the Public Works Department, as per Auditor's Statement.*

## Bridge Service:

Labor and material . . . . .	\$1,251 24
Maintenance Chelsea Bridge . . . . .	28,064 94
Rent . . . . .	200 00
Refund subscription . . . . .	6 67
Sale of row boat . . . . .	5 00
Charlestown Bridge rents . . . . .	3,625 00
Chelsea Bridge South from city of Revere . . . . .	19,479 69

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\$52,632 54

## Ferry Service:

Tolls . . . . .	\$74,416 12
Headhouse privileges . . . . .	300 00
Rent . . . . .	623 04
Commission on telephones . . . . .	101 50
Cleaning telephone booths . . . . .	48 00
Free use of ferries July 4th . . . . .	1 00
Sale of junk . . . . .	12 00

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75,501 66

## Lighting Service:

Lighting Boston and Cambridge Bridges . . . . .	\$1,746 78
Damage to posts . . . . .	747 50

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2,494 28

## Paving Service:

Inspectors' services . . . . .	\$1,722 00
Labor and materials furnished, etc. . . . .	5,524 67
Assessments laying sidewalks, etc. . . . .	25,407 33
Permits . . . . .	33,132 34
Sale of material . . . . .	5,320 07
Labor and materials (chapter 27, section 9, Revised Or- dinances of 1925) . . . . .	3,208 50
Use of roller . . . . .	125 00
Artificial sidewalk . . . . .	1,161 81
Sale of concrete mixer . . . . .	90 00
Sale of gasolene, etc. . . . .	50 77
Damage to automobile . . . . .	85 48
Damage to truck . . . . .	175 00
Damage to buggy . . . . .	75 00

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*Carried forward* . . . . . \$76,077 97      \$130,628 48

<i>Brought forward</i>	\$76,077 97	\$130,628 48
Damage to sidewalk	100 00	
Repairing signs	18 50	
Rent	290 00	
	<hr/>	76,486 47
Sanitary Service:		
Collection of commercial waste	\$101,141 10	
Sale of manure	1,803 99	
Sale of old material	10 50	
Oiling private way	30 00	
Rents, Fort Hill Wharf	788 62	
Sale of junk	70 00	
Sale of buggies	11 00	
Sale of wagons	15 00	
Overpayment of bill	75 00	
	<hr/>	103,945 21
Sewer Service:		
From state pumping sewage	\$10,300 00	
Entrance fees	12,745 24	
Labor and material furnished	1,483 91	
Sale of material	590 55	
Sale of hay	19 00	
Sale of junk	85 00	
Sale of pump	52 50	
Damage to automobile	25 00	
Repairing automobile	9 02	
Refund subscription	67	
Privilege of erecting building	350 00	
Inspectors' services	62 46	
Rent	260 00	
	<hr/>	
Separate Systems of Drainage:	\$25,983 35	
Assessments	\$3,421 34	
Interest on ditto	408 78	
	<hr/>	3,830 12
Sewerage Works:		
Assessments	\$55,214 78	
Interest on ditto	9,781 24	
Refund on easement	100 00	
Service of inspector	2,803 83	
Labor and material	1,824 25	
	<hr/>	69,724 10
	<hr/>	99,537 57
Water Service:		
Water rates due for 1926 and prior	\$3,790,408 27	
Service pipes for new takers, etc.	121,289 74	
Labor and materials	13,639 58	
	<hr/>	
<i>Carried forward</i>	\$3,925,437 59	\$410,597 73

<i>Brought forward</i> . . . . .	\$3,925,437 59	\$410,597 73
Elevator and fire pipe connections . . . . .	54,750 11	
Sale of materials . . . . .	3,599 73	
Fees on overdue rates . . . . .	6,152 18	
Shutting off and letting on water . . . . .	1,028 00	
Interest on deposits . . . . .	2,628 01	
Testing meters . . . . .	302 00	
Relocating hydrants . . . . .	955 16	
Damage to hydrants . . . . .	862 87	
Removing hydrants . . . . .	69 24	
Relocating pipes . . . . .	2,469 38	
Installing pipes . . . . .	218 65	
Repairs to pipes, gates, etc. . . . .	533 60	
Thawing pipes . . . . .	31 12	
Entrance to main pipe . . . . .	125 00	
Pickholes . . . . .	167 77	
Use of compressor . . . . .	75 45	
Water in trench . . . . .	9 52	
Refund on bill . . . . .	28 00	
Damage to automobile . . . . .	48 27	
Rebate on automobile registration . . . . .	2 50	
Sale of gasolene . . . . .	5 04	
Rents . . . . .	200 00	
Board of horse . . . . .	462 00	
Furnishing water . . . . .	1 65	
Accrued interest on loans negotiated . . . . .	833 33	
	<hr/>	4,000,896 17
		<hr/> <hr/>
		\$4,411,493 90



## CONTRACTS MADE BY PUBLIC WORKS DEPARTMENT FROM FEBRUARY 1, 1926, TO DECEMBER 31, 1926.

## Hired Teams.

District.	Awarded to	Doubles, per Day.	Singles, per Day.	Trucks, per Day.	Paving Service.	Sanitary Service.	Sewer Service.	Street Cleaning and Oiling Service.	Total.
1 No. 1, South Boston and Dorchester North.....	Edward J. Byrne.....	\$6 75	\$3 90	\$23 00	\$17,318 53	\$5,842 37	.....	.....	\$23,160 90
1 No. 2, East Boston and Breed's Island.....	Edward J. McLough & Son.	8 00	6 00	23 00	149 50	.....	.....	.....	149 50
1 No. 3, Charlestown.....	Edward J. McLough & Son.	8 00	6 00	23 00	1,627 50	8,131 45	.....	\$454 00	10,212 95
1 No. 5, West Roxbury.....	M. Doyle & Co., Inc.....	5 50	3 00	23 00	11,715 00	1,270 00	.....	.....	12,985 00
1 No. 6-9, Dorchester and Ashmont.....	Charles Loonie.....	7 50	4 00	23 00	11,450 50	.....	.....	.....	11,450 50
1 No. 7, Roxbury South and Jamaica Plain.....	M. McGinnis & Co.....	4 98	3 00	23 00	11,206 75	17,097 05	.....	.....	28,303 80
1 No. 8, South End and Roxbury North.....	M. H. Loonie Construc- tion Company.	7 75	6 00	23 00	17,110 75	11,983 90	\$722 00	.....	29,816 65
1 No. 10, North and West Ends and Back Bay.....	B. E. Grant Company.....	7 10	6 10	23 00	2,055 98	32,463 19	.....	.....	34,519 67
1 No. 11, Hyde Park.....	T. H. Corrigan & Sons.....	8 00	6 00	23 00	649 45	.....	.....	.....	649 45

1 Advertised and awarded to the lowest bidder.

## BRIDGE AND FERRY DIVISION (BRIDGE SERVICE).

## Bridge Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1925.
<sup>1</sup> Widening Tremont Street Bridge, over the Boston & Albany Railroad.	J. F. Kennedy Construction Company, Inc.	April 7, 1926.	Unfinished.....	\$41,495 50	\$26,317 70
<sup>1</sup> Building an extension to the abutment of Tremont Street Bridge, over the Boston & Albany Railroad.	V. Grande.....	April 7, 1926.	Completed June 16, 1926....	16,576 00	17,060 82
<sup>3</sup> Cleaning and painting the metal work of the Dover Street Bridge, over the Fort Point Channel.	M. M. Devine.....	May 8, 1926.	Completed Aug. 6, 1926.....	4,000 00	4,000 00
<sup>3</sup> Repairing concrete draw pier of Dover Street Bridge.	M. M. Devine.....	May 8, 1926.	Completed July 9, 1926.....	1,485 00	1,485 00
<sup>1</sup> Repairing draw fender pier of Northern Avenue Bridge.	W. H. Ellis & Son Company....	May 13, 1926.	Completed June 25, 1926....	\$30 00	976 62
<sup>1</sup> Renewing railings on Broadway Bridge, over the Boston & Albany Railroad.	W. A. Snow Iron Works, Inc....	May 13, 1926.	Completed Sept. 29, 1926....	1,685 00	1,685 00
<sup>1</sup> Painting Broadway Bridge over the Boston & Albany Railroad.	Beaver Construction Company,	May 24, 1926.	Completed July 28, 1926....	2,300 00	2,300 00
<sup>2</sup> Painting draw span of Malden Bridge.....	M. M. Devine.....	May 27, 1926.	Completed Aug. 10, 1926....	2,270 00	2,270 00
<sup>1</sup> Repairing Meridian Street Bridge fender pier.....	The Rendle Corporation.....	June 23, 1926.	Completed July 2, 1926.....	1,688 00	1,617 60
<sup>1</sup> Repairing L Street Bridge fender pier.....	The Rendle Corporation.....	June 23, 1926.	Completed July 15, 1926....	1,671 50	1,465 02
<sup>1</sup> Repairing Congress Street Bridge.....	C. & R. Construction Company,	June 30, 1926.	Completed Sept. 19, 1926....	8,742 50	7,087 73
<sup>1</sup> Repairing Summer Street Bridge.....	C. & R. Construction Company,	Aug. 3, 1926.	Completed Oct. 21, 1926....	5,349 50	2,875 18
<sup>1</sup> Painting Charlestown Bridge, over Charles river.....	Steeves Lacos Company.....	Sept. 1, 1926.	Completed Nov. 29, 1926....	8,425 00	8,125 00
<sup>1</sup> Repairing Warren Bridge over Charles river.....	The Rendle Corporation.....	Sept. 21, 1926.	Unfinished.....	21,025 00	16,295 80

<sup>1</sup> Boiler for Congress Street Bridge.....	R. H. Baker Company, Inc.....	Oct. 16, 1926.	Completed Nov. 30, 1926....	597 00	507 46
<sup>1</sup> Cleaning and paving approaches to Charlestown Bridge storchouses.	S. J. Tomasello.....	Oct. 30, 1926.	Completed Nov. 15, 1926....	2,700 00	2,176 15
<sup>1</sup> Replanking Everett Street Bridge over the Boston & Albany Railroad, Allston.	V. Grande.....	Nov. 8, 1926.	Unfinished.....	8,150 00	
<sup>1</sup> Repairing draw machinery housing and supports, Summer Street Bridge over Fort Point Channel.	W. H. Ellis & Son Company...	Nov. 19, 1926.	Completed Dec. 10, 1926....	1,743 50	1,707 03
<sup>1</sup> Repairing steel work on Berkeley Street Bridge over the Boston & Albany Railroad.	Grosser and Shlager.....	Nov. 24, 1926.	Completed Dec. 21, 1926....	985 00	837 26
<sup>4</sup> Repairing supports of draw machinery at Congress Street Bridge.	W. H. Ellis & Son Company...	Aug. 25, 1926.	Completed Sept. 9, 1926....	1,800 00	1,456 82
<sup>1</sup> Installing motors and control for Warren Bridge.....	Stearns, Perry & Smith Company.	Dec. 22, 1926.	Unfinished.....	943 00	

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>3</sup> Advertised and awarded to the only bidder.<sup>2</sup> Advertised and awarded to the second lowest bidder.<sup>4</sup> Only bid; not advertised.

## BRIDGE AND FERRY DIVISION (FERRY SERVICE).

## Ferry Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1926.
<sup>2</sup> Teaming coal to ferryboats. ....	Delia L. Carter. ....	Dec. 29, 1925.	Completed Dec. 31, 1926. ...	* \$0 30	\$4,215 63
<sup>1</sup> Repairing hull, etc., of ferryboat "General Sumner". .	R. T. Green Company. ....	Feb. 23, 1926.	Completed March 3, 1926. .	1,550 00	1,319 06
<sup>1</sup> Repairing hull, etc., of ferryboat "Ralph J. Palumbo"	The Atlantic Works. ....	March 24, 1926.	Completed March 26, 1926. .	3,425 00	4,363 01
<sup>1</sup> Repairing hull, etc., of ferryboat "General Sumner". .	The Atlantic Works. ....	June 19, 1926.	Completed July 20, 1926. ...	3,274 45	4,037 74
<sup>1</sup> Repairing hull, etc., of ferryboat "John H. Sullivan". .	The Atlantic Works. ....	Oct. 30, 1926.	Completed Nov. 20, 1926. ...	4,350 00	4,114 25
<sup>1</sup> Remodeling canopy of North Ferry. ....	J. A. Singarella. ....	Nov. 29, 1926.	Unfinished. ....	1,620 00	0 00
<sup>1</sup> Painting ferry headhouses. ....	M. M. Devine. ....	Dec. 18, 1926.	Unfinished. ....	1,735 00	0 00
<sup>3</sup> Repairing boilers of ferryboat "J. H. Sullivan". .	Hodge Boiler Works. ....	Dec. 31, 1926.	Unfinished. ....	6,000 00	0 00

\* Per ton.

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>2</sup> Advertised and awarded to the second lowest bidder.<sup>3</sup> Only bid; unadvertised.

## Contract in Force Made in Previous Years.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Bid Per Year.	Amount Expended in 1926.
<sup>1</sup> Weighing and vending machines in ferryhouses . . . . .	Auto Sales Corporation. . . . .	Jan. 31, 1925.	Unfinished . . . . .	\$400 00	\$400 00

<sup>1</sup> Advertised and awarded to the lowest bidder.

## HIGHWAY DIVISION — LIGHTING SERVICE.

## Contract in Force Made in Previous Years.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Price Per Gas Lamp Per Year.
Furnishing gas and for the equipment and lighting of gas lamps for a period of ten years, from April 1, 1924, to March 31, 1934, inclusive.	Boston Consolidated Gas Company. . . . .	May 20, 1924.	Unfinished. . . . .	\$11 00

<sup>1</sup> Advertised and awarded to the only bidder.

# HIGHWAY DIVISION. Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1926.
<sup>3</sup> Building and returning corners of end wall, etc., at 40 Nashua street, Boston.	T. H. Connolly.....	Jan. 13, 1926.	Completed Mar. 1, 1926...	\$750 00	\$750 00
<sup>2</sup> Repairing bituminous pavement in any street upon which the maintenance guaranty has expired.	Central Construction Company.	April 7, 1926.	Completed Dec. 31, 1926...	99,950 00	93,271 88
<sup>1</sup> Recutting, reheading and redressing old granite blocks.	William Toon.....	April 17, 1926.	Completed Dec. 9, 1926...	*14 50	14,099 41
<sup>1</sup> Laying bitulithic pavement and building sewerage works in Wade street and Westmore road, West Roxbury.	S. J. Tomasello.....	June 5, 1926.	Completed Sept. 20, 1926...	35,986 20	35,896 86
<sup>3</sup> Demolition of portion of building numbered 21 Dock square and 28 Faneuil Hall square, Boston.	William Perry.....	June 10, 1926.	Completed July 27, 1926...	800 00	800 00
<sup>3</sup> Demolition of building numbered 93 Kneeland street, Boston.	New England Contracting Company.	June 23, 1926.	Unfinished.....	335 00	None.
<sup>1</sup> Removing portion of building numbered 24, 25 and 26 Dock square and 20, 24 and 26 Faneuil Hall square, Boston.	Martin H. Ryan.....	July 22, 1926.	Completed Aug. 3, 1926...	13,750 00	13,750 00
<sup>3</sup> Removing portion of building 90-112 Kneeland street, inclusive, Boston.	New England Building Wrecking Company.	Aug. 3, 1926.	Unfinished.....	995 00	None.
<sup>3</sup> Removing portion of building numbered 28, 29 and 30 Dock square, Boston.	City Building Wrecking Company.	Aug. 30, 1926.	Completed Dec. 31, 1926...	1,470 00	1,000 00
<sup>1</sup> Removing portion of building numbered 2 to 12 Kneeland street, Boston.	American Building Wrecking Company.	Aug. 30, 1926.	Unfinished.....	1,485 00	None.

<sup>4</sup> Demolition of part of building numbered 74, 76, 78, 80, 82, 84 Kneeland street, Boston.	New England Wrecking Company.	Dec. 4, 1926.	Unfinished.....	195 00	None.
<sup>1</sup> Roof coverings on office building and stable in the Child street paving yard, Jamaica Plain.	J. F. Shea & Co.....	Dec. 8, 1926.	Completed Dec. 24, 1926....	300 00	360 00
<sup>1</sup> Rubble wall, Morton street, northerly side, from Canterbury street to Morton road, West Roxbury.	J. A. Singarella.....	Dec. 18, 1926.	Unfinished.....	13,500 00	None.
<sup>3</sup> Furnishing and installing wall radiation in garage, Public Works Department, Brighton.	J. W. Praught Company.....	Nov. 11, 1926.	Completed Dec. 14, 1926....	985 00	985 00
<sup>3</sup> Furnishing 2-watt flood lights, Paving Service, 650 Albany street, Boston.	Edwin C. Lewis.....	Dec. 6, 1926.	Completed Dec. 30, 1926....	487 00	487 00
<sup>3</sup> Furnishing six lights, paving yard, Chestnut Hill avenue.	Edwin C. Lewis.....	Dec. 15, 1926.	Completed Dec. 30, 1926....	245 00	245 00
<sup>3</sup> Installing rubber tired traction wheels and four front wheels on Nelson snow loaders.	N. P. Nelson Iron Works, Inc....	Oct. 27, 1926.	Completed Mar. 15, 1926....	4,000 00	3,575 04

\* Per thousand.

<sup>1</sup> Advertised and awarded to lowest bidder.<sup>3</sup> Only bid; not advertised.<sup>2</sup> Advertised and awarded to the second lowest bidder.<sup>4</sup> Invitation bids; not advertised.

## Removing Snow and Ice.

District.	Contractor.	Dated.	Progress of Work.	Price Per Cubic Yard.	Amount Expended in 1926.
1 District No. 1.....	Hugh Nawn, Inc. ....	Dec. 17, 1926.	Unfinished.....	\$0 55	\$6,216 65
1 District No. 2.....	Leo J. Nawn, Inc. ....	Dec. 22, 1926.	Unfinished.....	55	2,687 85
1 District No. 3.....	B. E. Grant Company.....	Dec. 17, 1926.	Unfinished.....	55	7,988 48
1 District No. 4.....	Coleman Brothers, Inc. ....	Dec. 8, 1926.	Unfinished.....	60	11,917 50
1 District No. 5.....	Ornaac Company.....	Dec. 8, 1926.	Unfinished.....	60	8,281 80
3 District No. 6.....	A. G. Tomasello & Son, Inc. ....	Dec. 23, 1926.	Unfinished.....	65	9,606 35
2 District No. 7.....	M. F. Gaddis.....	Dec. 10, 1926.	Unfinished.....	50	10,152 76
1 District No. 8.....	T. J. McCue Construction Company.	Dec. 17, 1926.	Unfinished.....	50	6,175 00
1 District No. 9.....	Coleman Brothers, Inc. ....	Dec. 8, 1926.	Unfinished.....	60	5,716 20
1 District No. 10.....	J. J. McCarthy & Co. ....	Dec. 8, 1926.	Unfinished.....	50	7,743 75
4 Charlestown.....	Coleman Brothers, Inc. ....	Dec. 18, 1926.	Unfinished.....	60	8,954 40
4 South Boston.....	Edward J. Byrne.....	Dec. 18, 1926.	Unfinished.....	60	2,106 30
4 City Proper.....	B. E. Grant Company.....	Feb. 11, 1926.	Completed May 1, 1926....	75	11,231 25
4 City Proper.....	Coleman Brothers, Inc. ....	Feb. 13, 1926.	Completed May 1, 1926....	60	41,631 90
4 City Proper.....	James W. O'Brien.....	Feb. 13, 1926.	Completed May 1, 1926....	60	5,600 40
4 City Proper.....	Hugh Nawn Contracting Com- pany.	Feb. 23, 1926.	Completed May 1, 1926....	60	11,352 60
4 City Proper.....	John W. O'Connell.....	Feb. 24, 1926.	Completed May 1, 1926....	60	2,603 70



<sup>4</sup> Dorchester.....	The Pierce Company, Inc.....	Feb. 27, 1926.	Completed May 1, 1926.....	60	1,858 80
<sup>4</sup> South Boston.....	Ormac Company.....	Mar. 9, 1926.	Completed Feb. 21, 1926.....	75	2,662 10
<sup>4</sup> East Boston.....	DeStefano Brothers.....	Feb. 23, 1926.	Completed May 1, 1926.....	50	7,060 50
<sup>4</sup> Brighton.....	John J. Lane.....	Feb. 13, 1926.	Completed May 1, 1926.....	*1,500 00	3,636 20
<sup>4</sup> In streets as designated.....	D. M. Biggs & Co.....	Dec. 23, 1926.	Completed Dec. 39, 1926.....	7,000 00	5,658 00

\* Estimated cost.

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>3</sup> Advertised and awarded to the third lowest bidder.<sup>2</sup> Advertised and awarded to the second lowest bidder.<sup>4</sup> Invitation bid; unadvertised.

## SANITARY SERVICE.

## Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1926.
<sup>3</sup> Removing manure from the stables and yards in the various divisions of the department.	Joseph A. Kelley.....	Dec. 24, 1925.	Completed Dec. 31, 1926....	*\$4 41	None.
<sup>2</sup> Removing ashes and rubbish from alleys and streets of the South End district.	M. H. Loonie.....	April 7, 1926.	Completed April 13, 1926....	12,753 53	\$11,501 10
<sup>1</sup> Furnishing combination motor street sprinkling and flushing trucks.	B. E. Grant Company.....	April 22, 1926.	Completed Oct. 31, 1926....	34 00 per day.	60,928 00
<sup>1</sup> Dredging at the refuse receiving station, Fort Hill Wharf, city proper.	Bay State Dredging and Contracting Company.	June 25, 1926.	Completed July 20, 1926....	2,500 00	3,100 00
<sup>1</sup> Repairs to city buildings, 650 Albany street and 32 North Grove street, city proper.	J. F. Shea and Company.....	Dec. 18, 1926.	Unfinished.....	4,065 00	None.
<sup>2</sup> Collecting and removing ashes, garbage, etc., in the North and West Ends and Back Bay.	Coleman Brothers, Inc.....	Mar. 13, 1926.	Completed Mar. 16, 1926....	4,000 00	3,575 04

\* Paid to city.

<sup>2</sup> Unadvertised; only bidder.<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>3</sup> Advertised and awarded to the highest bidder.

SEWER AND SANITARY DIVISION — SANITARY SERVICE.  
Collecting and Removing Ashes, Store Dirt, House Dirt, Refuse and Garbage.

DISTRICT.	Awarded to	Dated.	Progress of Work.	Bid Per Month.	Amount Expended in 1926.
<sup>2</sup> East Boston.....	Ward-Norton Company.....	Dec. 10, 1925.	Completed Dec. 31, 1926....	\$4,178 00	\$50,136 00
<sup>1</sup> Brighton.....	Joseph P. McCabe.....	Dec. 17, 1925.	Completed Dec. 31, 1926....	5,950 00	71,400 00
<sup>2</sup> West Roxbury.....	John J. Moore.....	Dec. 10, 1925.	Completed Dec. 31, 1926....	3,450 00	41,400 00
<sup>2</sup> Dorchester.....	J. C. Coleman & Sons Company.	Dec. 10, 1925.	Completed Dec. 31, 1926....	19,300 00	231,600 00
<sup>2</sup> Hyde Park.....	Thomas E. Bryan.....	Dec. 10, 1925.	Completed Dec. 31, 1926....	925 00	11,100 00

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>2</sup> Advertised and awarded to the second lowest bidder.

Contract in Force Made in Previous Years.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Bid per Year.
<sup>1</sup> Disposal of garbage and refuse for ten years, from July 1, 1922, to July 1, 1932.	Coleman Brothers, Inc.....	Dec. 31, 1921.	Unfinished.....	\$345,000 00

<sup>1</sup> Advertised and awarded to the lowest bidder.

**WATER DIVISION — WATER SERVICE.**  
**Laying and Relaying Water Pipes.**

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1926.
<sup>1</sup> Ada avenue, Church street, Harwood street, Loehdale road, Pershing road, Pleasant street, West Roxbury, and Summer street, Hyde Park.	A. Grande.....	April 13, 1926.	Completed May 20, 1926....	\$4,491 50	\$4,408 13
<sup>1</sup> Beacon street, Brookdale road, Morris street, York street, Brighton; Babson street, Codman Hill avenue, Outlook road and Richard terrace, Dorchester.	J. Williams & Co.....	April 17, 1926.	Completed June 10, 1926....	3,905 00	3,155 49
<sup>1</sup> Huntington avenue, from West Newton street to Norway street, city proper; Palmer street, from Washington street to Harrison avenue, Roxbury; Dorchester avenue, from West First street to West Second street; and West First street, from Dorchester avenue to Colton street, South Boston.	J. Williams & Co.....	May 8, 1926.	Completed June 19, 1926....	1,998 00	2,305 87
<sup>1</sup> Codman street, Codman Hill avenue, Dorchester; Cranston road and Hollywood road, West Roxbury.	J. Williams & Co.....	May 8, 1926.	Completed June 14, 1926....	3,782 50	3,447 14
<sup>1</sup> Elm avenue, from Adams street to Burgoyne street; Myrtlebank avenue, from Marsh street to Milton street; Milton street, from Whitridge street to Belton street, Dorchester; and Copenger street, from Parker Hill avenue, Roxbury.	J. Williams & Co.....	May 8, 1926.	Completed June 23, 1926....	2,027 25	2,622 85
<sup>1</sup> Bates street, Clarendon avenue, Hilburn street, Hillside avenue, Jeffers street, Mansfield street, Palfrey street, Parkway avenue and West Roxbury Parkway, West Roxbury.	M. DeSisto Company.....	May 8, 1926.	Completed June 26, 1926....	4,007 50	3,436 53
<sup>1</sup> Ashton street, Dorchester; Dickinson road, Brighton; Vaick street and West Roxbury Parkway, West Roxbury; Coronado road, Osceola street and Woodland road, Hyde Park.	Piatelli and Andreasse.....	June 3, 1926.	Completed July 16, 1926....	4,242 00	4,481 66
<sup>1</sup> Centre street, Green Hill avenue, Lila road, Louder's lane, Malcolm road and Winchester road, West Roxbury.	V. Barletta.....	June 3, 1926.	Completed Aug. 7, 1926....	7,076 00	7,093 21

1 Bellaire road, Burnside avenue, Cerdan avenue, Glenburnie road, Peak Hill road, Ravenna road, Weld street and West Roxbury Parkway, West Roxbury.	A. Cefalo.....	June 19, 1926.	Completed Aug. 28, 1926....	8,984 00	7,129 87
1 Pershing road, Stinson road, Summit road, West Roxbury; Rufing street, Hyde Park; Ormond street and Westmore road, Dorchester.	V. Barletta.....	June 22, 1926.	Completed Aug. 28, 1926....	5,760 00	5,007 46
1 Alarie street, Cottage avenue, Hopkins road, Perham street, Whiting street, West Roxbury; and Hurlcroft avenue, Dorchester.	Piatelli and Andreasse.....	July 14, 1926.	Completed Sept. 2, 1926....	4,485 00	3,088 96
1 Bates street, Ledyard road, Pender street, Prospect street, West Roxbury Parkway, Willowdean avenue, West Roxbury.	N. DiBartolomeo Company.....	July 22, 1926.	Completed Sept. 23, 1926....	3,910 00	3,325 89
1 Arborview road, Cedar street, Clarendon park, Cypress street, Summer street, Walworth street, Winchester road, West Roxbury; and Dana avenue, Hyde Park.	N. DiBartolomeo Company.....	Aug. 25, 1926.	Completed Oct. 2, 1926....	3,997 50	2,997 18
1 Cornuba street extension, Crest street and View South avenue, West Roxbury; Etna street, Gerald road, Gillard road, Holton street and Seminary road, Brighton.	J. Williams & Co.....	Sept. 7, 1926.	Completed Oct. 27, 1926....	5,505 00	3,025 69
Morris street, Brighton; Fuller street and Milton avenue, Dorchester.	Piatelli and Andreasse.....	Sept. 15, 1926.	Completed Oct. 14, 1926....	2,607 10	1,701 91
1 Carleton street, from Rutland square to Greenwich park, city proper; Crescent street, from Roland street to Cambridge street, Charlestown; Sunset street, from Hillside avenue to Parker Hill avenue, Roxbury; Mt. Bowdoin terrace, from Eldon street; and Claymont terrace, from Queen street, Dorchester.	J. Capone.....	Sept. 22, 1926.	Completed Oct. 20, 1926....	1,746 25	1,378 35
1 Charles River Reservation, from North Harvard street to Western avenue, Brighton.	V. Barletta.....	Sept. 28, 1926.	Completed Oct. 20, 1926....	11,575 00	8,328 73
1 Dana road, Linden road and Maple road, West Roxbury.	J. Williams & Co.....	Oct. 5, 1926.	Completed Nov. 2, 1926....	5,850 00	4,512 05

## Laying and Relaying Water Pipes.—Concluded.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1926.
<sup>1</sup> Halborn street and Mercier avenue, Dorchester; Lane park, Brighton; Goethe street, Granfield avenue and Green Hill avenue, West Roxbury.	C. Struzziery.....	Oct. 8, 1926.	Completed Dec. 4, 1926.....	\$3,919 00	\$3,466 57
<sup>1</sup> Beacon street at Charles street; Charles street, from Beacon street to Boylston street; Park square; Columbus avenue, from Eliot street to Arlington street; Arlington street, from Columbus avenue to Chandler street; Tremont street, from Chandler street to Appleton street; and in tunnel under railroad tracks at Arlington square, city proper.	C. & R. Construction Company.	Oct. 21, 1926.	Unfinished.....	124,635 00	13,880 57
<sup>1</sup> Dennison street, from Walnut avenue, Roxbury; Fairfax terrace, from Fairfax street; Cheverus road, from Dorchester avenue, Dorchester; Beecher street, from Paul Gore street, West Roxbury; and St. James avenue, from Berkeley street, city proper.	J. Williams & Co.....	Oct. 26, 1926.	Completed Dec. 8, 1926.....	5,131 25	3,269 75
<sup>1</sup> Fessenden street and Floyd street, Dorchester; Miles street, Brighton; Midvale road, Rivermoor road, West Roxbury Parkway, West Roxbury; and Pleasantview street, Hyde Park.	Piatelli and Andreasse.....	Nov. 1, 1926.	Unfinished.....	6,137 50	2,893 86
<sup>1</sup> Goodale road, Dorchester; Duncklee road, Brighton; Francis place, Freeman avenue, Reardon road, Rowe street, Rumford road, Spring road and Welles street, West Roxbury.	M. DeSisto Company.....	Nov. 29, 1926.	Unfinished.....	3,807 50	1,646 39
<sup>1</sup> Caspar street and Rossmore road, West Roxbury; DeForest street, Hyde Park; and Seminary road, Brighton.	C. Russo.....	Dec. 8, 1926.	Unfinished.....	2,782 50	Nothing.
<sup>1</sup> Bullion road, Cranston road, Pond circle, West Roxbury; and Violante street, Dorchester.	J. Capone.....	Dec. 18, 1926.	Unfinished.....	3,578 00	Nothing.
<sup>1</sup> Donald road, Milton avenue, Dorchester; Dana road, Knoll street, Roslindale avenue, Sanborn avenue and Walworth street, West Roxbury.	C. Russo.....	Dec. 30, 1926.	Unfinished.....	3,851 25	Nothing.
<sup>1</sup> Replanking sidewalk, Chelsea viaduct, over the Boston & Albany Railroad.	Buck-MacDonald Company.....	Sept. 17, 1926.	Completed Dec. 11, 1926.....	2,053 80	1,868 35

<sup>1</sup> Advertised and awarded to the lowest bidder.

## Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Contract Estimated.	Amount Expended in 1926.
<sup>1</sup> Repairing artificial stone sidewalk blocks for Water Service.	John F. Shea.....	May 8, 1926.	Completed Nov. 20, 1926....	\$2,640 00	\$2,672 32
<sup>4</sup> Purchase of old material, Water Yard, Albany street..	David Feinberg Company.....	July 13, 1926.	Completed July 15, 1926....	2,020 88	2,020 88
<sup>2</sup> Assembling fifty B. & F. post hydrants.....	McCulloch Manufacturing Company.	Sept. 1, 1926.	Completed Dec. 30, 1926....	4,700 00	4,315 85
<sup>1</sup> Assembling one hundred 8-inch valves and two hundred 12-inch valves.	McCulloch Manufacturing Company.	Sept. 1, 1926.	Unfinished.....	6,770 00	1,560 00
<sup>1</sup> Excavating and refilling service pipe trenches in South Boston, Roxbury, West Roxbury and Brighton.	J. Williams & Co. ....	Sept. 30, 1926.	Completed Oct. 23, 1926....	1,800 00	2,011 50
<sup>1</sup> Excavating and refilling service pipe trenches in South Boston, Roxbury, Dorchester, West Roxbury and Brighton.	C. M. Callahan, Inc. ....	Nov. 13, 1926.	Unfinished.....	2,325 00	1,367 69
<sup>1</sup> Repaving over trench where water pipe was laid in West First street, between B and D streets, South Boston.	C. M. Callahan, Inc. ....	Nov. 30, 1926.	Unfinished.....	835 00	Nothing.
<sup>1</sup> Erecting wooden storage shed, Water Division Yard, Hyde Park; and building wooden fence at Water Division Yard, 710 Albany street, city proper.	M. J. Rogers. ....	Dec. 1, 1926.	Unfinished.....	987 00	Nothing.
<sup>1</sup> Assembling one hundred 6-inch gate valves.....	McCulloch Manufacturing Company.	Dec. 17, 1926.	Unfinished.....	1,350 00	Nothing.
<sup>3</sup> Replacing broken derrick and boom, 710 Albany street.	Daniel Marr & Son Company..	May 22, 1926.	Completed June 1, 1926....	710 00	710 00
<sup>2</sup> Supplying water to Navy Yard by City of Boston, from July 1, 1926, to June 30, 1927.	United States Navy.....	July 1, 1926.	.....	\$0 88 to \$1 54 per cubic foot.	
<sup>1</sup> Repairing bituthic pavement where water pipe was laid in Commonwealth avenue, at Berkeley street, city proper.	Warren Brothers Company.....	July 7, 1926.	Completed July 15, 1926....	1,790 00	1,786 80

<sup>1</sup> Advertised and awarded to the lowest bidder.<sup>2</sup> Advertised and awarded to the only bidder.<sup>3</sup> Not advertised.<sup>4</sup> Advertised and awarded to the highest bidder.

## Area of Pavements.

## Area in Square Yards and Character of Pavements on Accepted Streets, January 1, 1927.

District.	Sheet Asphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges.	Brick.	Concrete.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1925 report.....	934,498	1,275,441	2,722,728	281,935	28,469	81,068	107,630	5,708,269	440,735	125,891	11,706,664
Per cent.....	7.98	10.90	23.26	2.41	0.24	0.69	0.92	48.76	3.77	1.07	100.00
January 1, 1927.											
City Proper.....	377,022	271,299	905,118	177,228	5,779	13,113	3,404	287,133	1,275	7,386	2,048,757
Charlestown.....	6,609	414	278,081	2,622	2,112	756	672	152,103	719	.....	444,088
East Boston.....	46,663	39,111	143,457	187	1,429	771	.....	445,316	5,511	865	683,310
South Boston.....	32,153	42,044	429,375	13,462	5,599	3,081	.....	380,618	13,465	40,103	959,900
Roxbury.....	173,831	164,094	409,495	24,241	1,022	38,249	16,124	817,111	21,820	945	1,666,932
West Roxbury.....	103,109	326,508	172,020	417	1,471	.....	27,820	1,123,275	61,083	21,518	1,837,221
Dorchester.....	113,538	291,274	274,831	44,678	4,636	23,969	22,737	1,577,893	91,916	7,295	2,452,677
Brighton.....	95,885	254,097	107,259	4,715	1,696	17	41,453	498,187	59,458	10,279	1,073,046
Hyde Park.....	207	32,301	13,022	1,683	3,368	.....	.....	347,489	206,489	8,477	613,036
Totals.....	*949,017	†1,421,142	‡2,732,658	269,233	27,112	79,956	\$112,210	5,629,035	461,736	96,868	11,778,967
Per cent.....	8.06	12.06	23.20	2.29	0.23	0.68	0.95	47.79	3.92	0.82	100.00

NOTE.— In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

\* Of this amount 470 square yards is Unicoinite, and 114 square yards is rubber.

† Of this amount 771 square yards is asphalt block; 137,468 square yards is asphalt concrete; 979,444 square yards is bitulithic; 959 square yards is Filbertine; 22,072 square yards is Sinasco; 280,213 square yards is Topoka and 215 square yards is Carey Elastite paving.

‡ Of this amount 945 square yards is cobble, and 1,573,571 square yards is granite block paving on concrete base.

§ Of this amount 946 square yards is Biome Granitoid concrete blocked pavement, and 836 square yards is Soliamies.

|| Of this amount 2,332,658 square yards is bituminous macadam.

33,973 square yards public alleys included in this table.

300,134 square yards public streets in charge of Park Department included in this table.

71,314 square yards public streets in charge of Commonwealth of Massachusetts included in this table.

In addition to this table there are 6,891 square yards of accepted footways.



## Length of Pavements.

Length in Miles and Character of Pavements on Accepted Streets, January 1, 1927.

District.	Sheet Asphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges	Brick.	Concrete.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1925 report.....	53.23	61.99	103.97	12.01	1.28	3.89	6.46	343.50	28.61	2.59	617.53
Per cent.....	8.62	10.04	16.84	1.94	0.21	0.63	1.05	55.62	4.63	0.42	100.00
January 1, 1927.											
City Proper.....	21.78	12.11	37.22	7.42	0.23	0.63	0.55	16.31	0.24	0.01	96.50
Charlestown.....	0.41	0.03	12.08	0.11	0.08	0.03	0.03	10.56	0.07	.....	23.40
East Boston.....	2.07	1.49	6.62	0.01	0.10	0.04	.....	21.97	0.28	0.04	32.62
South Boston.....	2.55	2.06	17.85	0.78	0.25	0.13	.....	20.29	0.72	1.46	46.09
Roxbury.....	9.92	7.93	15.28	1.12	0.04	1.99	0.76	52.94	1.58	0.05	91.61
West Roxbury.....	6.79	16.35	3.75	0.02	0.07	.....	1.83	72.65	3.70	0.43	105.59
Dorchester.....	6.79	14.42	10.28	1.84	0.16	1.07	1.31	97.22	5.81	0.07	138.97
Brighton.....	3.73	11.74	0.92	0.11	0.10	.....	2.22	28.57	4.02	0.27	51.68
Hyde Park.....	.....	1.44	0.07	0.10	0.19	.....	.....	19.73	13.49	0.24	35.26
Totals.....	* 54.04	† 67.57	† 104.07	11.51	1.22	3.89	\$ 6.70	340.24	29.91	2.57	621.72
Per cent.....	8.69	10.87	16.74	1.85	0.20	0.63	1.08	54.72	4.81	0.41	100.00

NOTE.—In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

\* Of this amount 0.02 mile is Unionite, and 0.00 mile is rubber.

† Of this amount 0.02 mile is asphalt block; 6.29 miles is asphalt concrete; 45.11 miles is bitulithic; 0.06 mile is Fibertine; 1.28 miles is Simasco; 14.81 miles is Topeka, and 0.00 mile is Carey Elastite paving.

‡ Of this amount 0.04 mile is cobble, and 50.89 miles is granite block paving on concrete base.

§ Of this amount 0.06 mile is Bione Grantoid concrete blocked pavement, and 0.04 mile is Solianies.

|| Of this amount 133.37 miles is bituminous macadam.

6.46 miles public alleys included in this table.

7.25 miles public streets in charge of Park Department included in this table.

2.23 miles public streets in charge of Commonwealth of Massachusetts included in this table.

In addition to this table there are 1.35 miles of accepted footways.

The following changes were made in pavement during the year:

0.07 mile or 991 square yards sheet asphalt changed to bitulithic.  
 0.01 mile or 393 square yards sheet asphalt changed to granite block.  
 0.18 mile or 4,982 square yards asphalt concrete changed to bitulithic.  
 0.01 mile or 176 square yards bitulithic changed to Simasco.  
 0.06 mile or 791 square yards bitulithic changed to granite block.  
 0.00 mile or 80 square yards Topeka changed to sheet asphalt.  
 0.02 mile or 270 square yards Topeka changed to bitulithic.  
 0.00 mile or 256 square yards Topeka changed to granite block.  
 0.00 mile or 104 square yards Topeka changed to concrete.  
 0.03 mile or 278 square yards Topeka changed to macadam.  
 0.13 mile or 1,549 square yards granite block changed to sheet asphalt.  
 0.00 mile or 93 square yards granite block changed to asphalt concrete.  
 0.66 mile or 19,523 square yards granite block changed to bitulithic.  
 0.01 mile or 320 square yards granite block changed to wood block.  
 0.00 mile or 5 square yards granite block changed to concrete.  
 0.00 mile or 288 square yards granite block changed to macadam.  
 0.43 mile or 9,415 square yards wood block changed to sheet asphalt.  
 0.11 mile or 2,812 square yards wood block changed to bitulithic.  
 0.00 mile or 1,495 square yards wood block changed to granite block.  
 0.00 mile or 215 square yards plank on bridges changed to Carey Elastite paving.  
 0.03 mile or 584 square yards plank on bridges changed to wood block.  
 0.03 mile or 652 square yards plank on bridges changed to concrete.  
 0.00 mile or 41 square yards brick changed to bitulithic.  
 0.00 mile or 1,071 square yards brick changed to granite block.  
 0.30 mile or 3,991 square yards macadam changed to sheet asphalt.  
 0.04 mile or 705 square yards macadam changed to asphalt concrete.  
 2.83 miles or 73,277 square yards macadam changed to bitulithic.  
 0.11 mile or 1,580 square yards macadam changed to Simasco.  
 0.53 mile or 14,753 square yards macadam changed to granite block.  
 0.04 mile or 478 square yards macadam changed to gravel.  
 1.58 miles or 26,085 square yards gravel changed to bitulithic.  
 0.02 mile or 329 square yards gravel changed to granite block.  
 0.19 mile or 3,783 square yards gravel changed to concrete.  
 0.91 mile or 12,826 square yards gravel changed to macadam.  
 0.00 mile or 17,678 square yards not graded changed to bitulithic.  
 0.04 mile or 9,334 square yards not graded changed to granite block.  
 0.00 mile or 1,427 square yards not graded changed to macadam.

#### EMPLOYEES.

The following tables show the number of requisitions made on the Civil Service Commission for men; the number appointed, reinstated, died, resigned, transferred and retired; also the grade and number of employees in the department:

Requisitions made on the Civil Service Commission . . . . .	33
Number of men called . . . . .	120
Number of men certified . . . . .	213
Number of men appointed . . . . .	117
Provisional appointments made permanent . . . . .	5
Promotions allowed . . . . .	30
Reinstatements allowed . . . . .	*14
Number of men resigned . . . . .	28

\* Eight on eligible list January 1, 1926.

Number of men died . . . . .	49
Number retired under the Veterans' Retirement Act, . . . . .	1
Number retired under the Boston Retirement Act . . . . .	72
Number of transfers to other departments . . . . .	12
Number of transfers from other departments . . . . .	22
Number of men discharged . . . . .	8

The records of the department show that there are now 3,151 persons eligible for employment in the several divisions and of that number 3,063 were upon the January, 1927, pay rolls.

## Grade and Number of Employees.

TITLE.	SERVICES.								
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.
Commissioner. . . . .	1								
Division engineers. . . . .		1	1				1		1
Engineers in charge. . . . .		1							1
Chief clerk. . . . .	1								
Clerks. . . . .	37	21	8	2	2	1	2	1	42
Assistant engineers (civil). . . . .		14	18				9		5
Draughtsmen. . . . .		3	12				5		3
Instrumentmen. . . . .		15	21				4		7
Rodmen. . . . .		2	7				1		
Inspectors. . . . .	1	38	45	45	33		3	1	32
Foremen. . . . .		10	3	9	10		1		12
Subforemen. . . . .		20	2				3		
Blacksmiths and assistants. . . . .		8	2	19					5
Blueprinters. . . . .	2								
Boilermaker. . . . .			1						
Chauffeurs-teamsters. . . . .	1	4	6	48	34		4		14
Carpenters and assistants. . . . .		21	4	5		4	14		6
Chief inspectors. . . . .		2			1				1
Cement testers and assistants. . . . .	3								
Chemists and assistants. . . . .		2							
Coal passers. . . . .			5						
Cashier. . . . .						1			
Drawtenders and assistants. . . . .							133		
<i>Carried forward.</i> . . . .	46	162	135	128	80	6	180	2	129

## Grade and Number of Employees.—Continued.

TITLE.	SERVICES.									
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
<i>Brought forward</i> .....	46	162	135	128	80	6	180	2	129	868
Deckhands.....						24				24
Engineers (steam).....		11	6			12			1	30
Electricians.....			2			1	1			4
Feeders.....		1		6						7
Firemen.....		5	15			30			1	51
Gate-men.....			4			16				20
General foremen.....		2	1		1	1			2	7
Harnessmakers and assistants.....				7						7
Head chauffeurs.....		3								3
Horseshoers.....				8						8
Janitors.....						1	1			2
Janitresses.....						7				7
Joiners.....						2				2
Laborers.....		337	96		136	13	5		184	771
Lamplighter.....						1				1
Machinist and assistants.....			6			9	1		20	36
Meter testers.....									8	8
Meter readers.....									32	32
Masons (stone and brick).....			10						2	12
Medical inspectors.....		1		1	1					3
Oilers.....			14			16				30
Pipe fitters and repairers.....						2			16	18
Pavers.....		76	1						3	80
Plumbers.....									20	20
Painters.....		3	1	9		3	3			19
Captains.....						12				12
Quartermasters.....						12				12
Repairers.....		16	1						94	111
Roofer.....						1				1
Rammers.....		9								9
Rigger.....						1				1
Sealers.....									3	3
<i>Carried forward</i> .....	46	626	292	159	218	170	191	2	515	2,219

## Grade and Number of Employees.—Concluded.

TITLE.	SERVICES.									
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
<i>Brought forward</i> .....	46	626	292	159	218	170	191	2	515	2,219
Sewer flushers.....			23							23
Supervisors and deputy.....		1		1	1		1			4
Stenographers.....		1	2					1		4
Stonecutters.....		8	2							10
Superintendents and deputy.....		2	1						2	5
Stockkeepers.....				1		1			1	3
Stablemen.....		12	3	28	19		1		1	64
Tankman.....						1				1
Teamsters and helpers.....		77	1	434	201				6	719
Telephone operators.....					1				1	2
Tollmen.....						13				13
Chief veterinarian.....		1								1
Watchman.....		3	10	12	4		5		6	40
Weighers.....		1		1						2
Wharfingers.....			2							2
Wharfmen.....				4						4
Wheelwrights and assistants.....				5						5
Yardmen.....		5	2	14	2				7	30
Totals.....	46	737	336	661	446	185	198	3	539	3,151

## Number of Employees Actually Employed January 1, 1926, and January 1, 1927.

	Central Office.	Bridge.	Ferry.	Lighting.	Paving.	Sanitary.	Sewer.	Street Cleaning and Watering.	Water.	Total.
January 1, 1926.....	41	193	178	3	731	628	335	447	543	3,099
January 1, 1927.....	39	196	176	3	711	641	328	433	536	3,063

*Total Eligible Force.*

January 1, 1926.....	49	197	178	3	743	650	337	470	549	3,176
January 1, 1927.....	46	198	185	3	737	661	336	446	539	3,151

## Appointments, Transfers, Resignations, Retirements, Deaths, etc., of Employees.

Died.	Retired, Act of 1922.	Retired Veterans, Act of 1911.	Transferred to Other Depart- ments.	Transferred to Other Services.	Discharged.	Resigned.	January 1, 1926.	SERVICES. 1926-1927.	January 1, 1927.	Transferred from Other Services.	Transferred from Other Depart- ments.	Reinstated.	Appointed.
.....	1	.....	1	1	...	3	49	Central Office. ....	* 46	3	.....	.....	.....
2	2	.....	1	.....	...	2	197	Bridge. ....	198	2	.....	.....	6
2	6	.....	.....	6	...	2	178	Ferry. ....	185	3	4	.....	16
.....	.....	.....	.....	.....	.....	.....	3	Lighting. ....	3	.....	.....	.....	.....
12	24	1	3	8	...	4	743	Paving. ....	737	29	6	1	10
12	7	....	5	25	2	10	650	Sanitary. ....	661	5	2	2	63
11	9	....	1	12	2	4	470	Street Cleaning. ....	446	3	5	3	4
8	7	.....	.....	3	...	1	337	Sewer. ....	336	6	1	.....	11
2	16	....	1	9	4	2	549	Water. ....	539	13	4	.....	7
49	72	1	12	64	8	28	3,176	Totals. ....	3,151	64	22	6	117

\* Includes eight Central Office employees who are paid on Water Service pay roll.

PART II.  
APPENDICES.

## APPENDIX A.

## CENTRAL OFFICE.

Appropriation . . . . .	\$92,360 72
Transfers . . . . .	3,351 67

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 \$89,009 05

Expenditures from January 1, 1926, to December  
31, 1926 . . . . .

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 89,009 05
*Expenditures.*

Salary, Commissioner . . . . .	\$9,000 00
Salaries of clerks, stenographers, etc. . . . .	71,459 00

## Automobile expenses:

Wages of chauffeur . . . . .	\$1,668 57
Reo sedan . . . . .	1,870 00
Repairs, etc. . . . .	29 96
Tires and tubes . . . . .	85 07
Supplies . . . . .	201 78
Registration . . . . .	15 00

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 3,870 38

Printing . . . . .	2,217 53
Stationery . . . . .	640 23
Postage . . . . .	415 63
Telephone tolls . . . . .	8 00
Travel expenses . . . . .	56 44
Typewriter . . . . .	87 08
Inspection and repairs of typewriters, etc. . . . .	125 25
Directories . . . . .	52 50
Books, papers and office supplies . . . . .	174 97
Premium on bonds . . . . .	5 00
Sundries . . . . .	55 75
Expenses of expert . . . . .	841 29

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 \$89,009 05



## APPENDIX B.

REPORT OF THE DIVISION ENGINEER OF THE  
BRIDGE AND FERRY DIVISION.

BOSTON, January 1, 1927.

MR. JAMES H. SULLIVAN,  
*Commissioner of Public Works.*

DEAR SIR,—I respectfully submit the following report of the income, expenditures and operation of the Bridge and Ferry Division for the year ending December 31, 1926. The expenditures of the division in the regular maintenance appropriations of the department were \$980,863.80. Under a number of special appropriations \$915,136.64 was expended, making the total expenditures for the year \$1,896,000.44.

The more important works undertaken during the past year in the Bridge Service were the Deer Island bulkhead for the protection of buildings on the island; the reconstruction of Massachusetts Avenue Bridge, over the New York, New Haven & Hartford Railroad, which greatly improves traffic conditions at this bridge and the widening of Tremont Street Bridge, over the Boston & Albany Railroad at Arlington square.

In the Ferry Service two new steel ferryboats were built and placed in service and a new electrically operated ferry bridge, with its foundations, was installed at the North Ferry, Boston.

As mentioned in the reports for some years past, Congress Street Bridge is in very bad condition and should be rebuilt at once. This will be a costly work and the Legislature by chapter 157 of the Acts of 1926 authorized the borrowing of \$800,000 outside the debt limit and this act has been accepted by the city.

The pile approaches to the draw span of Chelsea Bridge, over the North Channel of the Mystic river, are in bad condition and should be rebuilt of steel with masonry piers. This reconstruction will cost approximately \$1,500,000 and should be undertaken as soon as funds can be made available.

Both Columbus Avenue Bridge and Shawmut Avenue Bridge, over the Boston & Albany Railroad, are in bad condition and should be rebuilt, Columbus Avenue Bridge being in particularly bad condition.

*Audubon Road Bridge, over Boston & Albany Railroad.*

This bridge was repaired for the Park Department, under the supervision of this division.

The steel work was cleaned, repaired and painted by the Boston Transit Department forces.

A complete new wooden floor was furnished and laid by James V. Grande, under a contract dated May 8, 1926. This part of the work cost \$6,310.87 and was completed August 21, 1926.

*Berkeley Street Bridge, over Boston & Albany Railroad.*

The steel work of this bridge was repaired by Grossier & Schlager Iron Works, under a contract approved November 24, 1926. The contract was completed December 21, 1926, at a cost of \$985.

Three sidewalk beams were removed and replaced with new ones and the bottom plate of the westerly girder removed and replaced with a new one. Some reinforcing steel was placed on outstanding legs of stiffener angles as required.

*Broadway Bridge, over the Boston & Albany Railroad.*

On May 13, 1926, a contract was awarded to the Snow Iron Works for the renewal of the truss railings on this bridge. The new railings were treated with the Parkerizing process, which is expected to prolong their life considerably. This work was finished September 29, 1926, the contract price being \$685.

The metal work of the bridge was cleaned and painted, under a contract with the Beaver Construction Company, approved May 24, 1926. The sand blast method was used for cleaning the metal work.

A priming coat of red lead and linseed oil was used, followed by two coats of blue lead and oil. The city supplied the paint and the contractor, men and materials for its application.

The contract price was \$2,300, exclusive of the cost of paint. This work was completed July 28, 1926.

*Charlestown Bridge, over Charles River.*

The Steves Lacios Company of New York cleaned and painted the entire metal work of this bridge. The cleaning was done by the sand blast method and by hand; the painting was done by spraying and by hand.

The city furnished the paint for the work, the primary coat consisting of red lead and linseed oil and the two finish coats of blue lead and linseed oil. The metal work in the storehouses on the Charlestown side and one girder on the Boston side was painted with an asphaltic compound called "Hydralt."

The contractor furnished labor and equipment for doing the work under a contract approved September 1, 1926. The work was completed November 29, 1926, the contract price being \$8,425.

The approaches to the storehouses on the Charlestown end of this bridge, between the bridge and Charles River avenue, were paved with granite blocks, grout jointed on a gravel base. The city furnished the granite blocks. This work was done under a contract with Samuel J. Tomasello, approved October 20, 1926, and was completed November 15, 1926, at a contract cost of \$2,560.17.

*Chelsea Viaduct, over Boston & Maine Railroad.*

On September 17, 1926, a contract was approved with the Buck-McDonald Company for furnishing and laying 2-inch yellow pine plank for about 1,300 lineal feet of sidewalk. Each plank extended the full width of the sidewalk. All new plank used on this work was impregnated with creosote by the empty cell process, six pounds of creosote oil being used per cubic foot of lumber. The work was completed December 11, 1926, at a cost of \$2,198.06.

The Boston & Maine Railroad removed the old sidewalk planking and renewed the sidewalk stringers and curb stick.

*Congress Street Bridge.*

The wooden floor of the draw span was rebuilt under a contract with the C. & R. Construction Company. The fences were painted and some minor repairs made on the Boston approach. The contract was approved June 30, 1926, and the work completed September 19, 1926, at

a contract cost of \$7,086.73. The repairs are of a temporary nature in order to maintain travel over the structure.

On October 16, 1926, a contract was approved with the R. W. Baker Company for the removal of the old boiler and such piping as was necessary and the installation of a new 36-inch by 84-inch vertical tubular boiler with bonnet and fittings in the drawtenders' house. The work was completed November 30, 1926, at a contract cost of \$597.

#### *Dover Street Bridge.*

A contract for repairing the fender and draw pier of this bridge, made with the Buck-McDonald Company, approved November 17, 1925, was completed on April 28, 1927. The contract work amounted to \$9,734.41. This work consisted of repairs to the wooden piers, fender guards and platforms surrounding the substructure of the bridge. Three-inch creosoted yellow pine lumber was used for the platforms, which were reduced in area to conform with the policy of this division with regard to economy in the use of material. Other than the platform repairs the greater part of the work was done on the westerly fender.

On May 8, 1926, a contract was approved with Maurice M. Devine for the repairing of the draw pier of this bridge with gunite, the action of salt water having removed a large part of the surface material on the face of the concrete masonry draw pier. This surface material was replaced by the use of gunite on the portion of the pier between high and low water, which pier is a truncated cone  $6\frac{1}{2}$  feet high. This work was completed July 9, 1926, and the work under this contract cost \$1,485.

A contract was approved May 8, 1926, with Maurice M. Devine, for the cleaning and painting of the steel work of this bridge. The paint was supplied by the city, the contractor furnishing the labor and materials for the application of the same. The cleaning work was done by the use of the sand blast and wire brush method. The first coat of paint was red lead and linseed oil, upon which was applied two coats of blue lead and linseed oil paint. The work done under this contract cost \$4,000 and the work was completed August 6, 1926.

*Everett Street Bridge, over Boston & Albany Railroad.*

A contract was awarded to V. James Grande, approved by the Mayor November 8, 1926, for replanking this bridge. The work was completed January 7, 1927, at a contract cost of \$8,150.

The roadway was planked with 3-inch yellow pine and sheathed with 2-inch spruce lumber. All lumber in the roadway was treated by the empty cell process with six pounds of creosote per cubic foot.

As an experiment, four lines of "A. W." traffic treads, spaced apart about 5 feet on centers, were placed on the wooden surface to take the traffic. These treads are of copper-bearing steel,  $\frac{3}{16}$  inch thick, and are fastened to the wood with  $\frac{3}{8}$ -inch lag screws. To date the experience with these treads is very satisfactory.

*Malden Bridge, over Mystic River.*

The draw span of this bridge was cleaned and painted by Maurice M. Devine under a contract approved May 27, 1926.

The cleaning was done partly by the sand blast method and partly by wire brushing by hand. The city supplied the paint. A patch coat of red lead and oil was put on and two finish coats of blue lead and oil were then applied. The contract amounted to \$2,270 and the work was completed August 10, 1926.

*Meridian Street Bridge.*

A portion of the southeast corner fender guard of this bridge was repaired by replacing a number of broken piles and some timber work. The work was done by the Rendle Corporation under a contract approved June 23, 1926, and completed July 2, 1926, at a cost of \$1,617.60.

*Northern Avenue Bridge.*

The draw fender pier of this bridge was repaired by the W. H. Ellis & Son Company, under a contract approved May 13, 1926, and completed June 25, 1926.

The waling on the waterway and other wood work was repaired where necessary at a contract cost of \$976.62.

*Summer Street Bridge, over Fort Point Channel.*

The wooden track stringers, ties, blocking and bumpers under the retractile draw spans of this bridge were renewed where necessary by the C. & R. Construction Company under a contract approved August 3, 1926. The yellow pine ties were treated by the empty cell process with 6 pounds of creosote per cubic foot. The steel I-beam stringers, on which the ties rest, were thoroughly cleaned and painted. Travel was maintained over one half of the bridge during this work which was completed October 21, 1926, at a contract cost of \$3,382.56.

W. H. Ellis & Son Company repaired the timber and planking supporting the operating machinery of this bridge, under a contract approved November 19, 1926. This work was completed December 10, 1926, at a cost of \$831.80.

*Summer Street Bridge, over Reserved Channel.*

A portion of the fender guard of this bridge, part of the planking on the waterway and the cap under the draw span were repaired under a contract with the Rendle Corporation, approved June 23, 1926.

The work was completed July 10, 1926, at a contract price of \$1,465.02. The greater part of the work was on the fender on the South Boston side of the channel.

*Tremont Street Bridge.*

V. James Grande was awarded a contract for the removal of the water pipe, the water pipe bridge and the extension of the abutment of the Tremont Street Bridge, over the Boston & Albany Railroad, April 7, 1926. The abutment extension is of concrete, faced with granite masonry, and rests on a foundation of oak piles. This work was completed June 15, 1926, at a contract cost of \$17,060.82.

A contract was approved with the James F. Kennedy Construction Company on April 7, 1926, for the widening of this bridge, which crosses over the Boston & Albany Railroad at Arlington square. The westerly sidewalk of the old bridge was removed. The top of the pier on the southerly side, between the railroads, was partially removed to make room for the grillage beams and steel superstructures. The steel superstructure has four

through girders with steel floorbeams carrying a reinforced concrete slab. The new extension accommodates two roadways and a sidewalk. The roadways are paved with a 3½-inch granite block, with asphalt joints, on a reinforced concrete slab covered with waterproofing. The steel below the floor surface is covered with concrete and protected from the blast action of the locomotives by cast-iron plates.

This work is practically completed with the exception of a few minor operations. The concrete price for this work was \$41,782.38.

*Warren Bridge, over Charles River.*

The Rendle Corporation, under a contract approved September 21, 1926, repaired the draw foundations of this bridge. Track stringers, ties, planking, etc., were renewed. The steel rails under the down stream leaf of the draw span were replaced by new and heavier ones. The old rails were sorted and the best of them used under the upstream leaf. The waterway was repaired and the fender guard on the southeast corner extended downstream about thirty feet. The wooden timbers supporting the draw machinery were also repaired, giving protection to the draw span landing casting. This work was completed January 8, 1927, and the contract amounted to \$22,855.92.

A contract with Stearns, Perry & Smith Company was approved December 22, 1926, for the removal of the steam engines controlling the operation of the draw and replacing them with motors and their appurtenances. The city is to supply the motors and other electrical equipment. This work is incomplete.

*Work by Day Labor Force.*

A number of important repair jobs were done by the day labor force of the Bridge Service during the past year, as follows:

*Baker Street Bridge (over brook), in West Roxbury*, was completely rebuilt with wood block paving instead of the spruce sheathing, in order to eliminate the constant patching of the surface.

*Bennington Street Bridge, over the Boston, Revere Beach & Lynn Railroad*, was rebuilt on the easterly side with a special type of asphalt planked surface. This was in the nature of an experiment and up to date has worked

satisfactorily. It should not rot but whether it will stand the wear is a question to be determined only by experience.

*Boylston Street Bridge.*— Important repairs were made to the steel work of this structure by the day labor force of the Transit Department and the entire wooden flooring of the roadway was rebuilt by the labor force of the Bridge Service.

*Charlestown Bridge Draw Span.*— The wood work of the middle roadway was entirely rebuilt and the steel in the floor system cleaned and painted, after the Boston Elevated Railway Company at its own expense, strengthened the floor beams to carry heavier cars.

*Irrington Street Footbridge.*— Some badly corroded steel work was repaired and the wooden planking entirely renewed.

*Norfolk Street Bridge, over New York, New Haven & Hartford Railroad.*— Some badly corroded floor beams and nearly all of the wooden stringers were replaced by the railroad company. The city then put on an entirely new wooden flooring with wood block paving, instead of the wooden sheathing, in order to stop the continual patching.

Bituminous topping has been placed on a great many of the bridges which still have the wooden spruce sheathing, in order to lengthen the life of the sheathing and diminish the amount of patching required.

#### *Granite Avenue Bridge.*

The under plank and top plank have been repaired; nearly all the under planking being renewed.

The sidewalk plank needs repairs and the steel work should be painted.

#### *Rainsford Island Wharf.*

This wharf was repaired by the Institutions Department, under the supervision of this division. New piles, braces and other timbers were placed where needed under a contract approved May 17, 1926, with Roy B. Rendle & Co. The work was completed June 5, 1926, at a contract cost of \$2,453.40.

A considerable sum of money should be expended for repairs on this wharf within a few years if it is to be kept in service.



*Long Island, North West Wharf.*

The Miller Construction Company repaired this wharf and built new spring fenders for it under a contract approved June 25, 1926. The work was completed on August 17, 1926, and the contract amounted to \$2,915.20.

This work was done for the Institutions Department and the work contract was prepared and work supervised by this division.

*Deer Island Bulkhead.*

A bulkhead on the northerly shore of Deer Island was built by this department for the Penal Institutions Department. A contract was approved with Roy B. Rendle & Co. on September 13, 1926, for this work, which was completed December 11, 1926, at a contract cost of \$27,189.78. This structure is about 900 feet long and is composed of oak pile closely spaced, with yellow pine caps.

The driving was hard and the greater part of the piles were furnished with iron pile shoes. It will be advisable to construct some pile jetties seaward from the bulkhead whenever funds may be available for such work.

## FERRY SERVICE.

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The following steam ferryboats are in commission:

Name.	When Built.	Type.	Length.	Gross Tonnage.
Hugh O'Brien.....	1883	Side Wheel	175 ft. 3 in.	645
Governor Russell.....	1898	Propeller	164 " 3 "	713
Noddle Island (rebuilt)...	1921	"	174 " 5 "	564
General Sumner.....	1900	"	164 " 3 "	450
John H. Sullivan.....	1912	"	172 " 3 "	527
Lieutenant Flaherty.....	1921	"	174 "	727
Ralph J. Palumbo.....	1921	"	174 "	755
Charles C. Donoghue....	1926	"	174 " 4 in.	756.77
Daniel A. MacCormack...	1926	"	174 " 4 "	756.77

Two of these boats, the "Hugh O'Brien" and the "Governor Russell," should be sold, as they are not suitable to handle the existing traffic and are no longer needed.

### "LIEUTENANT FLAHERTY."

Under a contract with the Atlantic Works, approved December 29, 1925, the boat was put on the marine railway, hull cleaned and painted, defective rivets and seams repaired, foundations built for one new water service pump and one new feed pump, main stuffing boxes repacked and some other minor repairs made. The work was completed January 15, 1926. The amount paid the contractor was \$3,044.25.

### "HUGH O'BRIEN."

The ferryboat "Hugh O'Brien" was tied up for the greater part of the year, operating but a small portion of the time. The boat was put on the railway March 8, 1926, seams and joints were calked and some minor repairs made.

### "RALPH J. PALUMBO."

Under a contract with the Atlantic Works, approved March 24, 1926, this boat was taken out of the water. The work done consisted in cleaning and painting the hull, cleaning the strainers and sea valves, repairing defective rivets and seams, installation of one pump, which was furnished by the city, adjusting main bearings, repairing water end of air pump, repacking main stuffing boxes, repairing bilge suction in engine room

and reciprocating generator engine, fitting new connection in hull for deck pumps, access doors in monitor and other minor repairs.

This work was completed March 26, 1926, at a cost of \$4,363.01.

“GOVERNOR RUSSELL.”

This boat was put on the marine railway on July 16, 1926; hull cleaned and painted, strainers cleaned and some minor repairs made to both machinery and hull.

“JOHN H. SULLIVAN.”

A contract was made with the Atlantic Works and approved October 3, 1926, for repairing this boat.

These repairs consisted in taking the boat out of water, cleaning and painting the hull, cleaning the strainers and sea valve boxes, repairing defective rivets and seams, adjusting main bearings, repacking main stuffing boxes and miscellaneous repairs to main engines, auxiliaries, stern bearings, rudders, etc. This work was completed November 20, 1926, at a cost of \$4,840.30.

A contract was approved December 31, 1926, with the Hodge Boiler Works for repairs to the boilers of the “John H. Sullivan” and the work will probably take a month. These boilers are in such condition that they should be replaced within the next year.

“GENERAL SUMNER.”

Under a contract with the Richard T. Green Corporation approved February 23, 1926, repairs were made to this boat as follows:

Part of the guard was rebuilt, the generator engine overhauled, the after high pressure cylinder, including connecting rod, piston rod and crank pin brasses was taken down and reassembled. The crank pin and brasses were repaired and rebabbitted. The after high pressure cylinder was rebored, a new piston rod, a new bull ring, follower and snap rings were furnished and fitted. This work was completed March 3, 1926, at a contract cost of \$1,319.06.

Under a contract with the Atlantic Works, approved June 19, 1926, the following work was done: The boat was taken out of the water, the hull cleaned, painted and repaired, the guard, propellers and rudders repaired, the stern bearing rewooded and the main bearings rebabbitted. This work was completed July 20, 1926, at a cost of \$4,038.27.

## TWO NEW STEEL FERRYBOATS.

A contract was approved November 17, 1925, with the Bethlehem Shipbuilding Corporation, Ltd., for building two new steel ferryboats; the "Charles C. Donoghue" and the "Daniel A. MacCormack," from plans and specifications prepared by this division.

Each boat is a steel double ended ferryboat with four driveways for vehicles and two cabins for passengers on the main deck. Each boat is propelled by two screw propellers, one at either end, turned by two steam compound engines. Each boat is 174 feet 4 inches long with a breadth over guards of 57 feet. The boats are built to classification +A1 E, Ferry Service, of the American Bureau of Shipping.

On each boat is installed for fire protection purposes, in addition to the other ship's fire-fighting equipment, a 1,500-gallon centrifugal fire pump, turbine driven. On the upper deck on each boat are two 1 $\frac{3}{4}$ -inch turret nozzles and a 3 $\frac{1}{2}$ -inch fire plug.

The "Charles C. Donoghue" was delivered on September 23, 1926, and the "Daniel A. MacCormack" was delivered on October 21, 1926. The total amount paid for the two boats was \$520,948.

A contract was approved on December 10, 1925, with the Boston Barrier and External Brake Company, for four gates for the two new boats. The amount of the contract was \$5,500.

The barriers consist essentially of chains or cables hung on gates, the chains being attached to plungers acting on springs housed on steel posts. The contract was completed May 10, 1926.

A contract was approved December 4, 1925, with the J. Edward Ogden Company, in amount of \$1,761, for eight mooring hooks of a pad type, of chrome steel with bases of cast steel, similar to those on the ferryboat "Palumbo," for use in mooring the new boats to the new type of ferry bridge. The contract was completed March 3, 1926.

*Electrically Operated Ferry Bridge.*

A contract was approved December 29, 1925, with W. H. Ellis & Son Company, for pile and concrete foundations for the new ferry bridge at the North Ferry, Boston side.

Two concrete piers, supported on piles, were built to carry the towers for the gallows frame and a heavy mat of reinforced concrete was built to support the inner end of the new bridge. The work was completed December 31, 1926, and the amount paid under the contract was \$29,287.56.

A contract was approved December 30, 1925, with J. Edward Ogden Company for an electrically operated ferry bridge with gallows frame and machinery, at the North Ferry, Boston.

This ferry bridge is essentially the same as those at the South Ferry, which have given satisfaction, and are described in the annual report for the year 1924. The contract was completed October 11, 1926, and the amount paid under the contract was \$132,800.

#### NORTH FERRY, REMODELING CANOPY.

A contract was approved November 29, 1926, with Joseph A. Singarella, for furnishing and erecting at the North Ferry, Boston, steel supports for the canopy over the roadways and walkways, and furnishing and hanging new steel gates and barriers, similar to the installation at the South Ferry. This work was made necessary by the installation of the new ferry bridge at this point. The work will be completed early in 1927.

#### FERRY HEADHOUSES.

On December 18, 1926, a contract was approved with Maurice M. Devine, for cleaning and painting the interiors of three ferry headhouses, including the two headhouses in Boston and that at the North Ferry, East Boston. The interiors painted are those of the waiting rooms, rest rooms, smoking rooms, toilets, stairways, passageways, tollmen's and gatemen's rooms, etc. Surfaces painted were walls, ceilings, trims, rails, ducts, piping, etc.

The work was completed January 15, 1927, at a cost of \$1,735.

Yours respectfully,

JOHN E. CARTY,  
*Division Engineer.*

## BRIDGE SERVICE.

### FINANCIAL STATEMENT, 1926.

#### *Expenditures from Maintenance Appropriation.*

Boston bridges . . . . .	\$445,564 07	
Boston and Cambridge bridges . . . . .	18,983 08	
	-----	<u>\$464,547 15</u>

#### *Total Expenditures.*

From maintenance appropriation . . . . .	\$464,547 15	
From special appropriations . . . . .	199,830 96	
	-----	<u>\$664,378 11</u>

### EXPENDITURES ON BOSTON BRIDGES.

#### (1.) Administration:

##### Salaries:

Division engineer . . . . .	\$3,750 00	
Supervisor . . . . .	3,158 33	
Engineers and draughts-		
men . . . . .	29,795 59	
Foreman . . . . .	2,200 00	
Clerk . . . . .	2,100 00	
Inspectors . . . . .	2,455 49	
Medical inspector . . . . .	191 66	
Veterans' pensions . . . . .	4,703 53	
Holiday . . . . .	6,089 00	
Vacations . . . . .	2,135 98	
Injured employees . . . . .	60 00	
Printing, postage and sta-		
tionery . . . . .	2,416 24	
Traveling expense . . . . .	328 55	
Telephone . . . . .	38 10	
Engineers' supplies and in-		
struments . . . . .	72 11	
Typewriter inspection . . . . .	36 00	
Office supplies and repairs . . . . .	54 48	
	-----	<u>\$59,585 06</u>

## (2.) Yard and Stockroom:

## Yard:

Clerk, janitor and watchmen . . . . .	\$4,090 96	
Traveling expenses . . . . .	279 87	
Tools, new . . . . .	424 90	
Tools, repaired . . . . .	617 59	
Telephone . . . . .	226 57	
Towels and furnishings . . . . .	15 00	
Light and power . . . . .	142 62	
Repairs at yard . . . . .	860 51	
Supplies . . . . .	13 70	
	<hr/>	\$6,571 72

## Stockroom:

Stock purchased during year . . . . .	\$10,253 93
Stock used during year . . . . .	9,875 04
	<hr/>

Increase in stock . . . . . 378 89

\$6,950 61

*Automobiles, Trucks and Compressor.*

	Truck, B-1.	Truck, B-2.	Foreman, B-3.	Supervisor, B-4.	Division Engineer, B-5.	Compressor, B-6.	Total.
Cost, new. . . . .			\$449 00	\$877 50	\$1,347 00	\$2,015 30	\$4,688 80
Chauffeurs' wages. . . . .				1,514 28	1,188 00		2,702 28
Repairs. . . . .	\$955 00	\$194 86	282 84	242 80	510 44	30 00	2,215 74
Supplies. . . . .	23 90	22 02	28 68	26 48	33 07	1 20	135 35
Oil and gasoline. . . . .	314 56	357 46	251 13	196 10	408 41	14 36	1,542 02
New fires and tubes. . . . .	101 38	297 62	104 34	36 67	14 67		554 68
Repaired tires and tubes. . . . .	19 50	42 00	57 00	24 50	40 30		183 30
Registration. . . . .	2 00	2 00	12 00	12 00	17 00		45 00
Equipment. . . . .						806 59	806 59
Totals. . . . .	\$1,416 34	\$915 86	\$1,184 79	\$2,930 33	\$3,558 89	\$2,867 45	\$12,873 76

*Tide Water Bridges.*

BRIDGES.	Drawtenders' Salaries.	Mechanics' Wages.	Material.	Repair Bills.	Supplies.	Total.
Broadway.....	\$15,942 40	\$356 90	\$122 60	\$592 72	\$598 35	\$17,612 97
Charlestown.....	21,747 93	5,484 53	3,206 23	6,052 62	594 00	37,085 31
Chelsea North.....	18,287 87	4,308 41	3,227 57	3,051 30	1,036 62	29,911 77
Chelsea South.....	18,235 01	964 65	87 34	1,863 89	1,145 86	22,296 75
Chelsea Street.....	15,968 41	996 57	334 48	883 71	474 63	18,657 80
Congress Street.....	16,344 24	1,044 96	565 61	505 37	1,332 29	19,792 47
Dorchester Avenue.....	15,838 38	1,795 43	602 04	2,879 03	483 99	21,598 87
Dover Street.....	15,938 00	1,608 25	1,073 01	404 84	337 58	19,361 68
L Street*.....	15,881 56	1,183 85	258 48	189 14	558 02	18,071 05
Malden.....	16,542 08	727 28	160 18	1,946 08	615 10	19,990 72
Meridian Street.....	16,402 89	938 85	83 53	1,993 21	375 68	19,794 16
Northern Avenue.....	18,346 81	1,851 17	1,852 24	3,312 30	5,508 24	30,870 76
Summer Street.....	16,432 47	1,321 68	944 59	1,025 72	473 52	20,197 98
Warren.....	16,370 87	1,709 25	620 07	1,484 31	1,961 66	22,146 16
Totals.....	\$238,278 92	\$24,291 78	\$13,137 97	\$26,184 24	\$15,495 54	\$317,388 45

\* Now Summer Street over Reserved channel.

*Repairs on Inland Bridges.*

BRIDGE.	Labor and Material.
Albany Street.....	\$3,053 38
Arlington Street.....	67 75
Beacon Street (over Boston & Albany Railroad).....	51 45
Baker Street.....	706 84
Bennington Street.....	4,177 86
Berkeley Street.....	2,944 15
Blakemore Street.....	29 31
Blue Hill Avenue.....	532 98
Boston Street.....	358 28
Boylston Street.....	7,607 08
Bradeen Street.....	63 55
Broadway (over Boston & Albany Railroad).....	40 25
Brooks Street.....	567 97
Cambridge Street (over Boston & Maine Railroad).....	324 72
Central Avenue.....	103 25
Chelsea Street (over Boston & Maine Railroad).....	313 32



*Repairs on Inland Bridges—Concluded.*

BRIDGE.	Labor and Material.
Columbus Avenue.....	\$234 47
Commercial Point.....	1,115 17
Dartmouth Street.....	300 00
Dorchester Avenue (over railroad).....	288 99
Everett Street.....	712 82
Fairmount Avenue.....	34 00
Gainsborough Street.....	201 94
Gove Street (Foot).....	110 17
Glenwood Avenue (over Mother Brook).....	117 50
Glenwood Avenue (over Neponset River).....	350 09
Huntington Avenue (over Culvert, Hyde Park).....	147 21
Irvington Street.....	1,026 99
Jones Avenue (Foot).....	63 86
Massachusetts Avenue (over New York, New Haven & Hartford Railroad),	70 25
Massachusetts Avenue (over Boston & Albany Railroad).....	15 00
Metropolitan Avenue.....	43 50
Milton Street.....	31 00
Milton Lower Mills.....	66 88
New Allen Street.....	174 75
Norfolk Street.....	7,549 37
Oakland Street.....	73 58
Peabody Square.....	136 31
Perkins Street (Foot).....	334 66
Porter Street.....	109 45
Public Landing (Northern Avenue).....	51 34
Sprague Street.....	38 00
Shawmut Avenue.....	11 00
Southampton Street.....	345 00
Summer Street (over A Street).....	605 84
Summer Street (over B Street).....	556 13
Toll Gate Way (Foot).....	583 81
Tremont Street.....	11 50
West Fourth Street.....	3,554 90
Winthrop.....	36 73
Yarmouth Street.....	33 94
Cleaning Bridges.....	1,349 00
Snow.....	7,338 90
Totals.....	\$48,766 19

## SUMMARY OF EXPENDITURES.

Administration . . . . .	\$59,585 06
Yard and stockroom . . . . .	6,950 61
Automobiles and trucks . . . . .	12,873 76
Tide water bridges . . . . .	317,388 45
Inland bridges . . . . .	48,766 19
Totals . . . . .	<u>\$445,564 07</u>

## SPECIAL APPROPRIATIONS.

## BRIDGES, REPAIRS, ETC.

## BOYLSTON STREET BRIDGE.

Transit Department pay roll . . . . .	\$3,005 60
Flagman services . . . . .	552 49
Repairs . . . . .	390 57
	<u>\$3,948 66</u>

## BROADWAY BRIDGE OVER BOSTON &amp; ALBANY RAILROAD.

W. A. Snow Iron Works . . . . .	\$1,685 00
Beaver Construction Company . . . . .	2,300 00
Material — paint . . . . .	569 29
Advertising . . . . .	16 00
	<u>4,570 29</u>

## CHARLESTOWN BRIDGE.

Steves Lacios Company . . . . .	\$6,803 19
Material . . . . .	9,204 09
Calking roadway . . . . .	513 60
Ironwork . . . . .	637 11
Analysis of paint . . . . .	44 00
Advertising . . . . .	7 50
Carfares . . . . .	7 70
Snow dumps . . . . .	421 78
Transit Department pay roll . . . . .	72 80
	<u>17,711 77</u>

## CHARLESTOWN BRIDGE STOREHOUSE, PAVING APPROACHES TO.

Samuel J. Tomasello . . . . .	\$2,176 15
Advertising . . . . .	9 00
	<u>2,185 15</u>

## CHELSEA BRIDGE NORTH.

Roy B. Rendle, Inc. . . . .	\$1,348 81
Repairs — paving . . . . .	640 78
Advertising . . . . .	7 50
	<u>1,997 09</u>

## CHELSEA STREET BRIDGE.

Repairs . . . . .	\$544 37
Transit Department pay roll . . . . .	32 00
	<u>576 37</u>
Carried forward . . . . .	<u>\$30,989 33</u>

*Brought forward* . . . . . \$30,989 33

## CHELSEA STREET OVER VIADUCT.

Buck-MacDonald Company . . . . .	\$1,868 35	
Advertising . . . . .	7 50	
		1,875 85

## CONGRESS STREET BRIDGE.

C. & R. Construction Company . . . . .	\$6,296 37	
R. H. Baker Company . . . . .	507 45	
Repairs . . . . .	1,448 56	
Material . . . . .	21 40	
Photographs . . . . .	45 00	
Advertising . . . . .	16 50	
Transit Department pay roll . . . . .	8 40	
		8,343 68

## DORCHESTER AVENUE BRIDGE.

Repairs . . . . .	\$569 27	
Transit Department pay roll . . . . .	24 80	
		594 07

## DOVER STREET BRIDGE.

Buck-MacDonald Company . . . . .	\$9,813 29	
Maurice M. Devine . . . . .	5,485 00	
Material . . . . .	1,212 60	
Advertising . . . . .	40 00	
Paving repairs . . . . .	529 00	
Traveling expense . . . . .	3 40	
Engineering . . . . .	1,041 45	
		18,124 74

## L STREET BRIDGE.

The Rendle Corporation . . . . .	\$1,465 02	
Advertising . . . . .	8 00	
		1,473 02

## MALDEN BRIDGE.

Maurice M. Devine . . . . .	\$2,270 00	
Material — paint . . . . .	255 04	
Analysis of paint . . . . .	28 00	
Advertising . . . . .	7 50	
Repairs . . . . .	547 75	
Traveling expense . . . . .	2 50	
Transit Department pay roll . . . . .	204 80	
Engineering . . . . .	216 98	
		3,532 57

## MERIDIAN STREET BRIDGE.

The Rendle Corporation . . . . .	\$1,617 60	
Advertising . . . . .	7 50	
		1,625 10

## NORTHERN AVENUE BRIDGE.

W. H. Ellis & Son Company . . . . .	\$976 62	
Repairs . . . . .	379 17	
Advertising . . . . .	8 50	
		1,364 29

*Carried forward* . . . . . \$67,922 65

*Brought forward* . . . . . \$67,922 65

SUMMER STREET BRIDGE OVER FORT POINT CHANNEL.

C. & R. Construction Company . . . . .	\$2,875 18	
W. H. Ellis & Son Company . . . . .	4,745 66	
Material — paint . . . . .	107 00	
Advertising . . . . .	17 00	
Engineering . . . . .	49 86	
	<hr/>	7,794 70

WARREN BRIDGE.

The Rendle Corporation . . . . .	\$18,853 99	
Material . . . . .	847 00	
Advertising . . . . .	33 55	
Engineers' supplies . . . . .	45	
	<hr/>	19,734 99

ALBANY STREET BRIDGE.

Flagman services . . . . .		73 06
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BEACON STREET BRIDGE.

Flagman services . . . . .		8 77
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BERKELEY STREET BRIDGE.

Groisser & Shlager Iron Works . . . . .	\$837 25	
Advertising . . . . .	7 75	
Flagman services . . . . .	106 67	
	<hr/>	951 67

COTTAGE FARM BRIDGE.

Flagman services . . . . .	\$5 85	
Transit Department pay roll . . . . .	17 05	
	<hr/>	22 90

EVERETT STREET BRIDGE.

Engineering . . . . .	\$398 88	
Traveling expense . . . . .	10 47	
Advertising . . . . .	21 00	
	<hr/>	430 35

SUMMER STREET OVER A STREET.

Material — paint . . . . .		96 30
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SUMMER STREET OVER NEW YORK, NEW HAVEN & HARTFORD  
RAILROAD.

Paving repairs . . . . .		413 00
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YARMOUTH STREET BRIDGE.

Flagman services . . . . .		27 13
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\$97,475 52

BROADWAY BRIDGE, SOUTH BOSTON.

Engineering . . . . .	\$2,159 47	
Office supplies . . . . .	131 17	
	<hr/>	\$2,290 64

CONGRESS STREET BRIDGE, PLANS, ETC.

Engineering . . . . .	\$203 28	
Office supplies . . . . .	64 12	
Traveling expense . . . . .	125 34	
The Strauss Bascule Bridge Company . . . . .	9,500 00	
	<hr/>	<u>\$9,892 74</u>

## MASSACHUSETTS AVENUE BRIDGE.

Engineering . . . . .	\$2,313 02
Traveling expense . . . . .	32 45
Boston Bridge Works, Inc. . . . .	35,054 69
Material — cement . . . . .	4,016 16
Bridge lights . . . . .	1,229 51
Photographs . . . . .	22 00
Office supplies . . . . .	53 70
Repairs and paving adjustments . . . . .	484 65
	<u>\$43,206 18</u>

## TREMONT STREET BRIDGE.

Engineering . . . . .	\$5,236 98
Traveling expense . . . . .	14 00
Office supplies . . . . .	187 11
Advertising . . . . .	52 00
Inspection of material . . . . .	38 97
Photographs . . . . .	30 00
V. James Grande . . . . .	17,060 82
James F. Kennedy Construction Company . . . . .	22,461 45
Material — paint . . . . .	196 76
Asphalt pavement . . . . .	825 07
Paving adjustments . . . . .	406 25
Boston Bridge Works, Inc. . . . .	156 43
	<u>\$46,665 84</u>

## WEST NEWTON STREET BRIDGE.

Engineering . . . . .	\$90 14
Office supplies . . . . .	133 70
	<u>\$223 84</u>

## Expenditures from Special Appropriations in Charge of Bridge Service.

	Balances from 1925.	Total Credits, Including Balances Carried Over and Transfers.	Expended During Year 1926.	Balances Unexpended December 31, 1926.
Beacon Street Bridge, re- building.....	\$4,115 37	\$4,115 37		\$4,115 37
Bridges, repairs, etc. <sup>1</sup> .....	15,987 94	140,987 94	\$97,475 52	43,436 32
Cambridge Street Bridge, rebuilding.....	16,894 92	16,894 92		16,894 92
Congress Street Bridge, plans, etc.....	23,774 78	23,774 78	9,892 74	13,882 04
Dartmouth Street Bridge <sup>2</sup> ..	7,746 14	2,746 14		2,746 14
Massachusetts Avenue Bridge.....	57,302 19	57,302 19	43,206 18	14,096 01
Tremont Street Bridge.....	19,890 77	99,890 77	46,665 84	53,224 93
West Newton Street Bridge, .....		45,000 00	223 84	44,776 16
Totals.....	\$145,712 11	\$460,712 11	\$199,754 76	\$260,881 25

<sup>1</sup> \$76.10 expended by Boston and Cambridge Bridge Commission.<sup>2</sup> \$5,000 transferred to New Fire Station, Engine 21, Dorchester.

## BOSTON BRIDGES.

I. Number wholly maintained by Boston:		
In charge of Bridge and Ferry Division . . . . .	66	
In charge of Bridge and Ferry Division and Park and Recreation Department . . . . .	2	
In charge of Park and Recreation Department . . . . .	18	
	—	86
II. Number of which Boston maintains the part within its limits:		
In charge of Bridge and Ferry Division . . . . .	6	
In charge of Park and Recreation Department . . . . .	5	
	—	11
III. Number of which Boston pays a part of the cost of maintenance:		
In charge of Bridge and Ferry Division . . . . .	9	
In charge of Commissioners for Boston and Cambridge Bridges . . . . .	5	
In charge of Commissioners for Granite Avenue Bridge . . . . .	1	
	—	15
IV. Number of which Boston maintains the whole or a part of the wearing surface . . . . .		32
V. Number maintained by Metropolitan District Commission . . . . .		8
VI. Number maintained by railroad corporations:		
1. Boston & Albany Railroad . . . . .	4	
2. Boston & Maine and Boston & Albany Railroads . . . . .	1	
3. Boston & Maine Railroad, Eastern Division . . . . .	1	
4. Boston, Revere Beach & Lynn Railroad . . . . .	1	
5. New York, New Haven & Hartford Railroad, Midland Division . . . . .	13	
6. New York, New Haven & Hartford Railroad, Old Colony Division . . . . .	4	
7. New York, New Haven & Hartford Railroad, Providence Division . . . . .	16	
	—	40
Total number . . . . .		<u>192</u>

Table Showing the Width of Channelways for Vessels in all Over Navigable Water in the City of Boston in January, 1924.

NAME OF BRIDGE.	Location.	No.	Width.
* Anderson.....	Brighton to Cambridge.....	1	45'
Boston Elevated Railway.....	Boston to East Cambridge.....	1	
Boston Elevated Railway.....	Charlestown to Everett.....	1	75' 3"
Boston & Maine Railroad, Eastern Division,	Boston to Charlestown.....	1	39' 8"
Boston & Maine Railroad, Fitchburg Division.	Boston to Charlestown.....	1	36'
Boston & Maine Railroad, Fitchburg Division (for teaming freight.)	Boston to Charlestown.....	1	36' 7"
Boston & Maine Railroad (freight) Southern Division.	Boston to East Cambridge.....	1	40'
Boston & Maine Railroad (passenger) Southern Division.	Boston to East Cambridge.....	1	39' 8"
Boston & Maine Railroad, Western Division, Broadway.....	Boston to Charlestown.....	1	39' 4"
† Brookline street.....	Over Fort Point channel.....	1	50'
† Cambridge.....	Brighton to Cambridge.....		
* Cambridge Street.....	Boston to Cambridge.....	1	50' 3"
Charles River dam (lock).....	Brighton to Cambridge.....		
Charlestown (main channel).....	Boston to East Cambridge.....	1	45' 1"
Charlestown (north channel).....	Boston to Charlestown.....	2	51' 10"
Chelsea (north channel).....	Boston to Charlestown.....	2	49' 5"
Chelsea (south channel).....	Charlestown to Chelsea.....	2	124' 11½"
Chelsea Street.....	Charlestown to Chelsea.....	1	75'
Congress Street.....	East Boston to Chelsea.....	1	61' 10"
Dorchester Avenue.....	Over Fort Point channel.....	1	51' 2"
Dover Street.....	Over Fort Point channel.....	1	41' 11"
* Grand Junction Railroad.....	Over Fort Point channel.....	1	41' 3"
Grand Junction Railroad.....	Brighton to Cambridge.....		
Granite Avenue.....	East Boston to Chelsea.....	1	60'
* Harvard.....	Dorchester to Milton.....	1	50' 4"
Malden.....			
Meridian Street.....	Charlestown to Everett.....	1	75' 4"
Neponset.....	East Boston to Chelsea.....	1	100' 10"
New York, New Haven & Hartford Railroad,	Dorchester to Quincy.....	1	
Plymouth Division.	Over Fort Point channel.....	1	41' 10"
* North Beacon Street.....	Dorchester to Quincy.....	1	51' 6"
Northern Avenue.....	Brighton to Watertown.....	2	76' 2"
Summer Street.....	Over Fort Point channel.....	1	51' 6"
Summer Street (over Reserved channel)...	Over Fort Point channel.....	1	51' 6"
Warren.....	South Boston.....	1	39' 6"
* Western Avenue.....	Boston to Charlestown.....	1	36' 6"
* Western Avenue.....	Brighton to Cambridge.....		45'
* John W. Weeks.....	Brighton to Watertown.....		
	Brighton to Cambridge.....		

\* Drawless channelway, clear headroom of 12 feet above basin level (about elevation 8.0).

† Drawless channelway, clear headroom of 28 feet above basin level.

## Bridge Openings, 1926.

BRIDGE.	STEAMERS.			SAILING VESSELS.			TUGS.			BARGES.			ALL OTHERS.			TOTAL NUMBER OF VESSELS.			Total Number of Carries.	Total Number of Openings.
	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.		
	Night.	Total.		Night.	Total.		Night.	Total.		Night.	Total.		Night.	Total.		Night.	Total.			
Broadway.....	16	20	36	54	59	1,362	101	1,463	307	43	350	583	6	589	2,322	175	2,497	491	946	
Charlestown.....	27	40	67	31	36	2,954	855	3,809	575	147	722	2,264	880	3,144	5,851	1,927	7,778	1,950	1,798	
Chelsea North.....	1,078	143	1,221	68	69	9,408	1,105	10,513	1,589	173	1,712	1,280	501	1,781	13,373	1,923	15,296	1,747	5,990	
Chelsea South.....	53	8	61	58	62	5,168	254	5,422	148	6	154	2,819	138	2,957	8,246	410	8,656	1,954	2,950	
Chelsea Street.....	82	52	134	1	1	1,855	867	2,722	262	176	438	1,118	137	1,255	3,318	1,232	4,550	944	2,316	
Congress Street.....	163	25	188	67	69	2,421	181	2,602	369	50	419	731	13	744	3,751	271	4,022	677	2,130	
Dorchester Avenue.....	73	24	97	57	61	1,414	99	1,513	320	43	363	530	7	537	2,394	177	2,571	530	1,524	
Dover Street.....	.....	.....	.....	56	2	58	1,348	85	1,433	327	35	362	591	30	621	2,322	152	2,474	509	1,139
* L Street.....	61	24	85	97	5	102	1,944	66	2,010	289	13	302	1,191	59	1,250	3,582	167	3,749	804	2,623
Malden.....	73	73	146	19	1	20	1,274	216	1,490	267	23	290	679	291	970	2,312	604	2,916	693	1,449
Meridian Street.....	783	427	1,210	23	25	7,083	1,931	9,014	1,122	561	1,683	3,470	619	4,089	12,481	3,540	16,021	2,251	8,559	
Northern Avenue.....	732	504	1,236	65	6	71	4,421	274	4,695	439	63	502	2,196	182	2,378	7,853	1,029	8,882	1,759	4,207
Summer Street.....	150	15	165	61	7	68	2,415	219	2,634	352	64	416	703	27	730	3,681	332	4,013	691	2,232
Warren.....	41	90	131	26	28	2,884	856	3,740	707	136	843	2,112	896	3,008	5,800	1,980	7,750	1,747	3,660	
Totals.....	3,332	1,445	4,777	683	46	729	45,951	7,109	53,060	7,023	1,533	8,556	20,267	3,786	24,053	77,286	13,919	91,175	16,747	41,523

\* Now Summer Street Bridge, over Reserved Channel.



## GRANITE AVENUE BRIDGE.\*

Salaries of drawtenders	\$2,492 03
Material	476 67
Repairs	262 50
Supplies	54 33
	<u>\$3,285 53</u>

\* Maintained jointly by County of Suffolk and town of Milton.

## Granite Avenue Bridge Openings from January 1, 1926, to December 31, 1926.

OPENINGS.	STEAMERS.			SAILING VESSELS.			TUGS.			BARGES.			ALL OTHERS.			TOTAL NUMBER OF VESSELS.			Total Number of Carroes.	Total Number of Openings.
	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.		
10	3	13		16	2	18	214	214	92	.....	92	125	53	178	457	58	515	46	341	

## FERRY SERVICE.

### FINANCIAL STATEMENT FOR THE YEAR ENDING DE- CEMBER 31, 1926.

#### 1. Receipts.

Total cash receipts during the year . . . . .	\$75,501 66
Cash in hands of tollmen at beginning of year . . . . .	200 00
	<u>\$75,701 66</u>
Cash paid over to City Collector . . . . .	\$75,501 66
Cash in hands of tollmen December 31, 1926 . . . . .	200 00
	<u>\$75,701 66</u>

#### 2. Appropriations and Expenditures.

Received from annual appropriations for Ferry Service . . . . .	\$533,021 57
Transferred to Paving Service, . . . . .	\$12,485 01
Transferred to City Treasury, . . . . .	4,219 91
	<u>16,704 92</u>
	\$516,316 65
Unexpended balances from special appropriations, January 1, 1926 . . . . .	\$1,020,064 26
Appropriation from taxes for ferry improvements, etc., . . . . .	60,000 00
	<u>1,080,064 26</u>
	\$1,596,380 91
Total expenditures . . . . .	<u>1,228,336 90</u>
Unexpended balances of special appropriations, December 31, 1926 . . . . .	* <u>\$368,044 01</u>

#### 3. Result of Operations for the Year.

Receipts for the year (net income) . . . . .	\$75,501 66
Ordinary expenses (main-tenance appropriation) . . . . .	\$516,316 65
Interest paid on ferry debt . . . . .	50,352 50
	<u>\$566,669 15</u>
Carried forward . . . . .	\$566,669 15

\* Of this amount \$250,000 in loans has been authorized, but not issued.

<i>Brought forward</i> . . .	\$566,669 15	
Depreciation on ferryboats .	65,815 27	
Decrease in value of machinery and tools . . . . .	514 92	
Decrease in value of fuel on hand . . . . .	6,852 00	
	<hr/>	
	\$639,851 34	
Increase in value of supplies on hand . . . . .	74 23	
	<hr/>	
Net outgo for the year . . . . .		\$639,777 11
Net loss for the year . . . . .		* <u>\$564,275 45</u>

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\* Does not include expenditures for special appropriations.

## Balance Sheet.

End of Fiscal Year, December 31, 1926.

ASSETS.		LIABILITIES.	
AVAILABLE ASSETS:		CURRENT LIABILITIES:	
Cash in hands of tollmen at close of year.....	\$200 00	None.	
Inventory of supplies, viz.:			
Fuel.....	3,737 60		
Supplies for maintenance.....	7,851 59		
Rents receivable.....	583 34		
Total available assets.....	\$12,372 53		
CONTINGENT ASSETS:		CONTINGENT LIABILITIES:	
City Treasury.....	* 368,044 01	Appropriations account.....	* \$368,044 01
FIXED ASSETS:		FIXED LIABILITIES:	
Real estate, land and buildings <sup>1</sup> .....	* 610,100 00	Capital of the city invested in the ferries, viz.:	
Ferryboats <sup>2</sup> .....	1,270,288 27	Total expenditures of all kinds for sixty-	
Machinery, tools, etc.....	4,634 31	nine years, including interest on ferry	
Total tangible assets.....	\$2,265,439 12	debt.....	\$20,869,712 66
Deficiency or loss by operation and maintenance		Less total receipts.....	8,191,161 67
of the ferries for sixty-nine years to date.....	10,781,155 88		12,678,550 99
	\$13,046,595 00		\$13,046,595 00

\* Includes \$250,000 authorized, but not issued.

<sup>1</sup> Original purchase.....	\$276,375 00	<sup>2</sup> Assessors' figures.	
New buildings, drops, slips, cost to 1913..	607,523 64	Total cost to date, per ferry books.....	\$2,178,182 01
Land, Lincoln's Wharf, cost to 1887.....	5,562 52	Less boats sold, depreciated or destroyed,	907,893 74
Land, Battery Wharf, cost, 1893.....	10,000 00		<u>\$1,270,288 27</u>
	\$899,461 16		
New drops, both ferries, cost from 1923 to			
December 31, 1926.....	700,000 00		
	<u>\$1,599,461 16</u>		

## Comparative Balance Sheets at the Close of Each Year.

	January 31, 1923.	January 31, 1924.	January 31, 1925.	December 31, 1925.	December 31, 1926.
<i>Assets.</i>					
Cash, tollmen's capital.....	\$200 00	\$200 00	\$200 00	\$200 00	\$200 00
Rents receivable.....	251 37	392 35	489 21	592 34	583 34
Fuel and supplies in stock.....	25,831 83	23,097 11	20,088 22	18,366 96	11,589 19
City Treasurer (balance of appropriation).....	255,944 84	113,072 86	217,676 36	1,020,064 26	368,044 01
Ferryboats (less depreciation).....	972,070 25	914,754 98	857,439 71	800,124 44	1,270,288 27
Machinery and tools.....	1,804 60	1,624 14	4,163 58	3,747 23	4,634 31
Real estate, land and buildings (assessors' valuation).....	610,100 00	610,100 00	610,100 00	610,100 00	610,100 00
Total tangible assets.....	\$1,866,202 89	\$1,663,241 44	\$1,710,157 08	\$2,453,195 23	\$2,265,439 12
Cost of avenues, etc., East Boston (previous to 1871) <sup>1</sup> .....	315,815 68	315,815 68	315,815 68	315,815 68	315,815 68
Deficiency of assets (loss).....	7,393,091 23	8,149,845 42	8,966,610 71	9,726,416 60	10,465,340 20
Totals.....	<u>\$9,575,109 80</u>	<u>\$10,128,902 54</u>	<u>\$10,992,583 47</u>	<u>\$12,495,427 51</u>	<u>\$13,046,595 00</u>
<i>Liabilities.</i>					
Capital invested by City of Boston to date.....	\$9,319,164 96	\$10,015,829 68	\$10,774,907 11	\$11,475,363 25	\$12,678,550 99
Appropriations account (credit balances).....	255,944 84	113,072 86	217,676 36	1,020,064 26	368,044 01
Total liabilities.....	<u>\$9,575,109 80</u>	<u>\$10,128,902 54</u>	<u>\$10,992,583 47</u>	<u>\$12,495,427 51</u>	<u>\$13,046,595 00</u>

## Details of Capital Invested by the City of Boston.

Total expenditure to date per ferry books.....	\$16,865,009 88	\$17,658,444 98	\$18,501,559 12	\$19,273,121 91	\$20,540,211 31
Interest of debt for the year (per City Auditor's reports).....	49,585 00	44,585 00	41,710 00	38,752 50	50,352 50
Interest, previous years, etc. (net debits, per City Auditor's reports),	279,148 85	279,148 85	279,148 85	279,148 85	279,148 85
Total expenditures.....	<u>\$17,193,743 73</u>	<u>\$17,982,178 83</u>	<u>\$18,822,417 97</u>	<u>\$19,591,023 26</u>	<u>\$20,869,712 66</u>
Deduct total receipts paid to City Collector.....	7,874,578 77	7,966,349 15	8,047,510 86	8,115,660 01	8,191,161 67
Excess expenditures, capital.....	<u>\$9,319,164 96</u>	<u>\$10,015,829 68</u>	<u>\$10,774,907 11</u>	<u>\$11,475,363 25</u>	<u>\$12,678,550 99</u>

<sup>1</sup> Included in deficiency of assets in Table 4.

## Comparison of Receipts, Appropriations and Expenditures.

	1922-23.	1923-24.	1924-25.	1925. (11 months.)	1926.
RECEIPTS.					
From foot passengers (tollmen).....	\$35,221 49	\$31,059 13	\$27,347 91	\$22,254 80	\$23,087 75
From foot passes (office sales).....	249 20	254 40	280 20	264 70	361 30
From extra passengers on teams (gatemen).....	1,639 04	1,212 80	1,525 94	727 12	800 61
From team tickets (office sales).....	1,723 00	1,621 50	1,947 00	2,026 00	2,307 00
From strip team tickets (tollmen).....	17,766 50	15,442 00	13,204 50	11,400 50	12,531 00
From cash fares for teams (gatemen).....	44,007 10	41,072 74	35,796 62	30,542 28	35,328 46
From free ferries July 4.....	1 00	1 00	1 00	1 00	1 00
Total from rates.....	\$100,607 33	\$90,663 57	\$80,103 17	\$67,216 40	\$74,417 12
From rents.....	495 98	398 02	417 16	368 02	523 04
From old material sold.....	.....	122 03	64 68	15 00	12 00
From other sources.....	565 99	586 76	576 70	549 73	549 50
Total ordinary receipts.....	\$101,669 30	\$91,770 38	\$81,161 71	\$68,149 15	\$75,501 66
EXPENDITURES (ORDINARY).					
Office:					
Division engineer's salary (part)†.....	\$1,250 00	\$1,250 00	\$1,250 00	\$833 33	\$1,250 00
General foreman and cashier †.....	4,800 00	4,968 59	5,013 70	4,704 06	5,259 69
Clerk.....	1,200 00	1,284 29	1,386 59	1,281 13	1,459 83
Retired veterans' pensions.....	6,165 56	7,449 09	7,633 27	6,442 76	6,247 13
Retired employees' pensions.....	2,258 00	3,240 00	2,921 00	2,404 00	2,215 00
Medical inspector (part).....	83 34	83 34	83 33	91 67	91 67
Stationery.....	173 70	160 54	43 04	304 18	142 00

Printing.....	1,661 81	1,178 60	986 60	1,283 89	1,594 75
Telephones.....	278 60	246 17	249 52	237 89	270 02
Advertising.....	98 55	33 00	38 50	7 50	53 20
Car fares.....	91 75	97 35	88 17	101 45	109 73
Postage.....	5 26	8 00	4 00	20 00	4 00
Premiums, surety companies.....	7 15	85 00	85 00	85 00	94 00
Total office expenses.....	\$18,073 72	\$20,083 97	\$19,852 72	\$17,796 86	\$18,791 02
Ferryboats and landings:					
Employees (wages) §.....	\$292,612 87	\$291,878 59	\$315,339 26	\$302,376 44	\$338,261 69
Fuel.....	89,882 09	92,904 36	75,278 43	62,388 96	66,738 24
Teaming, weighing coal, etc.....	2,703 87	2,986 03	3,296 97	3,152 02	4,331 75
Supplies.....	13,066 28	15,567 00	22,490 54	15,506 25	17,664 04
Gas.....	1,005 89	1,007 43	752 33	968 61	1,149 09
Oil.....	2,230 73	1,769 82	2,543 80	1,125 48	1,857 99
Electric light.....	3,790 19	4,154 60	4,973 19	4,579 53	5,848 39
Towing teams by electric motors.....	120 31	166 13	604 57	843 42	954 13
Repairs of boats.....	36,479 53	50,977 87	51,230 02	51,571 46	48,702 43
Repairs of buildings, piers and drops.....	33,817 14	13,908 12	24,814 05	9,528 99	9,103 14
Furnishings.....	678 30	255 50	256 00	326 50	319 25
Other expenditures ¶.....	2,630 48	3,025 36	2,095 58	2,076 17	2,595 49
Total.....	\$497,091 70	\$498,684 78	\$523,527 46	\$472,240 69	\$516,316 65

† Remainder paid by Bridge Service.

‡ Included in employees (wages) after February 1, 1916, in office books.

§ Includes payment under Workmen's Compensation Act.

|| Includes repairs of coal carts, medical attendance, etc.





**Total Expenditures Upon Ferries Since 1858-59.**

Expenditures for avenues, paving interest, etc., previous to the purchase of the ferries by the city . . . . .	\$444,101 30
Purchase of the ferries, April, 1870 . . . . .	276,375 00
Expenditures for ferryboats since April, 1870 . . . . .	2,178,182 01
Expenditures for new buildings, piers, drops, etc. . . . .	1,304,820 44
Expenditures for tools and fixtures (prior to 1910) . . . . .	14,752 46
Expenditures for land from Lincoln's Wharf in 1887 . . . . .	5,562 52
Expenditures for land from Battery Wharf in 1893 . . . . .	10,000 00
<hr/>	
Total expenditures on capital account . . . . .	\$4,233,793 73
Expenditures for repairs of all kinds . . . . .	2,279,211 83
Expenditures for fuel . . . . .	2,595,634 11
Expenditures for salaries and wages . . . . .	9,114,363 36
Expenditures for all other purposes . . . . .	2,646,709 63
<hr/>	
	<u>\$20,869,712 66</u>

**Total Receipts from Ferries Since 1858-59.**

Receipts from rents, etc., previous to purchase of ferries . . . . .	\$29,588 56
Receipts from ferry tolls since purchase of ferries . . . . .	7,875,068 07
Receipts from rents since purchase of ferries . . . . .	71,182 26
Receipts from sale of ferryboats . . . . .	152,567 44
Receipts from all other sources, per ferry books, . . . . .	32,220 49
Receipts from all other sources, additional, per City Auditor . . . . .	30,734 85
<hr/>	
Total receipts from all sources . . . . .	\$8,191,361 67
Less amount with tollmen as capital . . . . .	200 00
<hr/>	
Total receipts, auditor's reports . . . . .	<u>\$8,191,161 67</u>

**REGULAR ANNUAL (ORDINARY) AND SPECIAL APPROPRIATIONS  
(EXTRAORDINARY) OF THE FERRY SERVICE FOR THE YEAR  
ENDING DECEMBER 31, 1926.**

Appropriations (regular) for the year ending December 31, 1926 . . . . .	\$533,021 57
Transferred to Paving Service . . . . .	\$12,485 01
Transferred to City Treasury . . . . .	4,219 91
<hr/>	
	16,704 92
<hr/>	
Amount of expenditures (regular) for the year . . . . .	<u>\$516,316 65</u>

## SPECIAL APPROPRIATIONS.

## EAST BOSTON FERRY, IMPROVEMENTS, ETC.

Unexpended balance, January 1, 1926 . . . . .	\$165,492 45
Expenditures for year 1926 . . . . .	154,879 78

Unexpended balance December 31, 1926 . . . . .	<u>\$10,612 67</u>
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## Expenditures for year made up as follows:

Labor, Bridge Service employees . . . . .	\$2,460 55
Travel expense, car fares . . . . .	117 45
Amount paid to W. H. Ellis & Son Company under contract for foundations for ferry bridge, North Ferry . . . . .	19,501 78
Amount paid to J. Edward Ogden Company, Inc., for constructing electrically operated bridges with gallews frames and machinery at North Ferry . . . . .	132,800 00
	<u>\$154,879 78</u>

## East Boston Ferry, two additional boats:

Unexpended balance January 1, 1926 . . . . .	\$821,757 22
Expenditures for year 1926 . . . . .	532,736 32

Unexpended balance December 31, 1926 . . . . .	<u>\$289,020 90</u>
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## Expenditures for the year were made up as follows:

Pay rolls, Bridge Service . . . . .	\$3,709 01
Travel expense, car fares, etc. . . . .	713 75
Postage . . . . .	10 00
Printing specifications . . . . .	14 00
Photographs . . . . .	27 56
Advertising . . . . .	8 00
Sundries . . . . .	45 00
Amount paid to Boston Barrier and External Brake Company, under contract, for furnishing barriers . . . . .	5,500 00
Amount paid under contract to J. Edward Ogden Company, Inc., for mooring hooks for ferryboats . . . . .	1,761 00
Amount paid under contract to Bethlehem Shipbuilding Corporation, Limited, for constructing two ferryboats . . . . .	520,948 00
	<u>\$532,736 32</u>

## Ferry improvements, etc.:

Unexpended balance January 1, 1926 . . . . .	\$32,814 59
Appropriation from taxes . . . . .	60,000 00

	<u>\$92,814 59</u>
Expenditures for year 1926 . . . . .	24,404 15

Unexpended balance December 31, 1926 . . . . .	<u>\$68,410 44</u>
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## Expenditures for the year were made up as follows:

Pay roll, Bridge Service . . . . .	\$655 92
Advertising . . . . .	46 00
Cable chain around piles . . . . .	100 00
Repairs to ferryboat "Noddle Island" . . . . .	446 99

<i>Carried forward</i> . . . . .	<u>\$1,248 91</u>
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<i>Brought forward</i>		\$1,248 91
Small piers and spur shores built		927 85
Amount paid to Rendle Corporation, under contract, for repairing piers at South Ferry:		
Amount of contract	\$55,856 96	
Less amount paid in 1925	33,629 57	
		<u>22,227 39</u>
		<u>\$24,404 15</u>

## RECEIPTS AT EACH FERRY.

*North Ferry.*

FROM TOLLMEN.	From Foot Passengers.	From Tickets.	Totals.
Boston side . . . . .	\$5,751 78	\$2,550 50	\$8,302 28
East Boston side . . . . .	5,183 48	3,250 00	8,433 48
Totals . . . . .	\$10,935 26	\$5,800 50	\$16,735 76

From tollmen . . . . .		\$16,735 76
From gatemen:		
31,287 foot passengers at 1 cent,	\$312 87	
Cash fares for teams . . . . .	11,513 60	
		<u>11,826 47</u>
Total at North Ferry . . . . .		<u>\$28,562 23</u>

*South Ferry.*

FROM TOLLMEN.	From Foot Passengers.	From Tickets.	Totals.
Boston side . . . . .	\$6,340 07	\$3,657 50	\$9,997 57
East Boston side . . . . .	5,812 42	3,072 50	8,884 92
Totals . . . . .	\$12,152 49	\$6,730 00	\$18,882 49

From tollmen . . . . .		\$18,882 49
From gatemen:		
46,348 foot passengers at 1 cent,	\$463 48	
Cash fares for teams . . . . .	23,839 62	
		<u>24,303 10</u>
Total at South Ferry . . . . .		<u>\$43,185 59</u>

North and South Ferries . . . . .	\$71,747 82
Tickets paid for at ferry office . . . . .	2,668 30
Received in lieu of free ferries July 4, 1926 . . . . .	1 00

Total from rates . . . . .	\$74,417 12
Rents for the year . . . . .	523 04
Headhouse privileges . . . . .	400 00
Care of public telephone booths . . . . .	48 00
Commission on public telephone . . . . .	101 50
Old material sold . . . . .	12 00

Total receipts for year . . . . . \$75,501 66

TRAVEL ON THE FERRIES FROM JANUARY 1, 1926,  
TO DECEMBER 31, 1926, INCLUSIVE.

	North Ferry.	South Ferry.
Foot passengers at 1 cent each . . . . .	1,124,813	1,261,597
Foot passengers by ticket . . . . .	15,139	16,660
Foot passengers free . . . . .	—	—

Total foot passengers . . . . . 1,139,952      1,278,257

One-horse teams, light motor trucks, pleasure carriages and runabouts, . . . . .	135,829	212,318
Two-horse pleasure carriages, hacks, and touring cars . . . . .	114,268	251,272
Two-horse teams and motor trucks, . . . . .	120,788	142,975
Three-horse teams and heavy motor trucks . . . . .	625	1,243
Four-horse teams . . . . .	697	1,683
Handcarts, etc. . . . .	—	—
Drag wheels . . . . .	—	—
Free teams, hacks and motor vehicles . . . . .	13,253	12,942
	<u>385,460</u>	<u>622,433</u>

Motor Vehicle Traffic (Reports of Captains).

January 1, 1926, to December 31, 1926.

	North Ferry.	South Ferry.	Total.
Runabouts . . . . .	<sup>1</sup> 41,574	<sup>2</sup> 71,245	112,819
Touring cars . . . . .	<sup>3</sup> 138,169	<sup>4</sup> 277,537	415,706
Trucks . . . . .	108,167	<sup>5</sup> 163,966	272,133
Totals . . . . .	287,910	512,748	800,658

<sup>1</sup> Includes 1,014 free.

<sup>2</sup> Includes 1,169 free.

<sup>3</sup> Includes 5,712 free.

<sup>4</sup> Includes 5,536 free.

<sup>5</sup> Includes 4,910 free.

<sup>6</sup> Includes 4,166 free.

Total paying foot passengers . . . . .	2,418,209
Total free foot passengers . . . . .	—
Total foot passengers carried . . . . .	<u>2,418,209</u>
Total paying teams . . . . .	981,698
Total free teams . . . . .	26,195
	<u>1,007,893</u>

TOTAL TRAVEL OF BOTH FERRIES FROM FEBRUARY 1,  
1921, to DECEMBER 31, 1926.

	1921-22.	1922-23.	1923-24.	1924-25.	1925. (11 mons.)	1926.
One-horse teams* . . . . .	468,831	502,407	445,839	406,336	331,086	348,147
Two-horse teams † . . . . .	309,529	341,257	314,672	291,710	222,543	263,763
Three-horse teams . . . . .	1,605	1,850	1,548	1,249	736	1,868
Four-horse teams . . . . .	4,311	6,061	4,816	2,105	1,514	2,380
Two-horse carriages, hacks ‡ . . . .	299,791	368,711	366,846	338,031	290,361	365,540
Two-cent tolls, handcars, etc. . . .	4,122	4,333	4,409	3,098	2,282	
Drag wheels, etc. . . . .		2	5	35		
Paid teams at both ferries . . . . .	1,088,189	1,224,621	1,138,135	1,042,564	848,522	981,698
Free teams at both ferries . . . . .	22,458	29,349	26,197	27,988	24,417	26,195
Total teams at both ferries . . . . .	1,110,647	1,253,970	1,164,332	1,070,552	872,939	907,893
Foot passengers paid . . . . .	4,390,781	3,711,491	3,224,419	2,844,317	2,298,192	2,418,209
Foot passengers free . . . . .	4,479	1,865	1,650	1,584	270	
Total foot passengers . . . . .	4,395,260	3,713,356	3,246,089	2,845,901	2,298,462	2,418,209

NOTE.— Team travel includes automobiles.

\* Includes one-seat automobiles. † Includes motor trucks. ‡ Includes two-seat automobiles.

## APPENDIX C.

REPORT OF THE DIVISION ENGINEER OF  
THE HIGHWAY DIVISION.

BOSTON, January 1, 1927.

MR. JAMES H. SULLIVAN,  
*Commissioner of Public Works.*

DEAR SIR,—I submit herewith a statement of the activities and expenditures of the Paving and Lighting Services for the year ending December 31, 1926. The maintenance expenditures for the Highway Division for the year were as follows:

Lighting Service . . . . .	\$927,329 94
Paving Service . . . . .	2,089,589 45
	<u>\$3,016.919 39</u>

The department forces were engaged during the year resurfacing macadam roadways as well as patching and repairing defects in roadways and sidewalks. A large amount of patching was done with material mixed by the plant in the Brighton Yard and hauled to different parts of the city. The repair of asphalt and bitulithic pavements out of guarantee was done this year by the department forces.

## CONSTRUCTION.

During the year contracts were awarded to do work on about ninety-two streets. There were about 11,300 yards of new granite block and about 67,000 yards of recut granite block, all laid on a concrete base: 7,900 yards of sheet asphalt, 129,000 yards of bitulithic and 3,700 yards of reinforced concrete pavements laid and about 85,500 yards of artificial stone sidewalks.

Twenty-eight streets laid out under the "Highways, making of" appropriation were constructed.

Blue Hill avenue, from Quincy street to Washington street was paved with recut granite blocks, thus completing this artery. Huntington avenue, from Forsyth way to the Riverway, was paved with bitulithic, completing this stretch of roadway. Boston street, from the bridge over the New York, New Haven & Hartford Railroad to Edward Everett square, and Washington street, from Massachusetts avenue to Williams street, were paved with recut granite blocks.

A section of Morton street was widened and constructed and thrown open to travel.

Among the important thoroughfares that were reconstructed were Warren street, Roxbury; Meridian street, East Boston; Tremont street, and Harvard avenue, Brighton.

Work was begun on Dock square and Faneuil Hall square as well as on the Kneeland street improvement.

On account of the heavy snowfall coming unusually early, construction work was suspended weeks earlier than usual and the entire force was put to work on the removal of the same.

The snowplowing of streets in the suburbs was done under the direction of the district foremen and a successful attempt was made to keep open to travel every street in the residential parts of the city.

In the Lighting Service, boulevard type white way lamps were installed in the following streets: Washington street; Park square; Columbus avenue; Arlington street; Massachusetts avenue, between Harvard Bridge and Columbus avenue; Boylston street; Harvard avenue, Brighton; Morton street, West Roxbury; White street and Brooks street, East Boston.

Arc lamps were provided for skating and tobogganing at Franklin Field, Franklin Park and Wood Island Park, the same as in previous years.

Very truly yours,

JOSHUA ATWOOD,  
*Division Engineer.*

## HIGHWAY DIVISION — LIGHTING SERVICE.

## FINANCIAL STATEMENT.

*Expenditures January 1, 1926, to December 31, 1926.**Electric Lighting:**Arc.*

Edison Electric Illuminating Company . . . . .	\$521,057 56	
Charlestown Gas and Electric Company . . . . .	28,050 19	
	<hr/>	\$549,107 75

*Incandescent.*

Edison Electric Illuminating Company . . . . .	\$106,671 33	
Charlestown Gas and Electric Company . . . . .	547 78	
Charlestown Gas and Electric Company fire alarm lamps . . . . .	228 58	
	<hr/>	107,447 79

*Gas Lighting:*

Boston Consolidated Gas Company . . . . .	\$245,235 25	
Charlestown Gas and Electric Company . . . . .	13,069 15	
Charlestown Gas and Electric Company fire alarm lamps . . . . .	600 39	
	<hr/>	258,904 79

*Salaries and Wages:*

Division Engineer (part of) . . . . .	\$1,250 00	
Clerk . . . . .	2,259 70	
Stenographer and clerk . . . . .	1,600 00	
Lighting inspector . . . . .	1,800 00	
	<hr/>	6,909 70

*Automobile Expenses:*

Gasolene, oil, etc. . . . .	\$116 61	
Registration . . . . .	10 00	
Shoes and tubes, new and repairs, . . . . .	102 67	
Supplies . . . . .	67 70	
Repairs . . . . .	35 15	
Storage . . . . .	48 00	
	<hr/>	380 13

<i>Carried forward . . . . .</i>	<hr/>	\$922,750 16
----------------------------------	-------	--------------



*Brought forward* . . . . . \$922,750 16

*Construction:*

Installing lamps and posts and removing and  
relocating lamps and posts . . . . . 2,317 08

*Office Expenses:*

Printing . . . . .	\$47 60	
Postage . . . . .	32 00	
Stationery and periodicals . . . . .	63 42	
	<hr/>	143 02

*Miscellaneous:*

Travel expenses (car fares) . . . . .	\$26 10	
Typewriter repairs and inspection . . . . .	12 00	
Gas lamp posts . . . . .	3,000 00	
Globes and shade frames . . . . .	58 50	
	<hr/>	3,096 60

Total . . . . .	\$928,306 86
Less rebates on installations . . . . .	976 92

Total . . . . .	<u>\$927,239 94</u>
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*Revenue Credited to General Revenue.*

Lighting Boston and Cambridge Bridges . . . . .	\$1,746 78
Damage to posts . . . . .	747 50
	<hr/>
	<u>\$2,494 28</u>

The following is a statement of the work during the year under the supervision of the Division Engineer.

Arc lamps have been provided for skating and tobogganing during the season at Franklin Field, Franklin Park and Wood Island Park the same as in years past.

Boulevard type white lamps have been installed on Washington street, Park square, Columbus avenue, Arlington street and Providence street and Massachusetts avenue between Harvard Bridge and Columbus avenue, city proper; Boylston street, Fenway and Audubon road, Roxbury; Harvard avenue, Brighton; Morton street (new road), West Roxbury; White street, Brooks street, East Boston. Thus, throughout the city the lighting system has been increased, including the boulevard type and magnetite arcs by the installation of 115 arc lamps, 217 incandescents and 67 gas lamps at various locations. The usual amount of regulation and relocation of lamps and services made necessary by

street construction, the building of sewers and other work has been conducted throughout the year.

Petitions and requests for new lamps received from citizens and from officials, also complaints in relation to the Lighting Service have been investigated and attended to. All streets in the underground district prescribed for the year have been inspected and the necessary changes and additions have been made.

The number of miles of streets and ways lighted by this service is as follows:

Public streets and alleys . . . . .	621.72
Public footways . . . . .	9.35
Park roads, footways and private streets and alleys approximately . . . . .	307.12
Total . . . . .	<u>938.19</u>

During the year the following defects were reported by the police: arc lamps, 4,549; incandescent, 1,631 and gas lamps, 2,142.

There are in operation 21,157 arc, incandescent and gas lamps, divided as follows: 5,978 arcs, 5,226 incandescents and 9,817 single mantle gas lamps and 145 fire alarm gas lamps.

#### LAMPS INSTALLED.

Magnetite arc lamps . . . . .	161
Tungsten lamps . . . . .	254
Single mantle gas lamps . . . . .	119
	<u>534</u>

#### LAMPS DISCONTINUED.

Magnetite arc lamps . . . . .	*46
Tungsten lamps . . . . .	37
Single mantle gas lamps . . . . .	52
	<u>135</u>

#### CHARLESTOWN.

\*Fifteen magnetite arc lamps changed to 1,000 candle power incandescent.

#### CITY PROPER.

\*Twenty-four magnetite arc lamps changed to 1,500 candle power incandescent.

Three 60 candle power series mazda lamps transferred from Metropolitan District Commission.

Six 250 candle power series mazda lamps transferred from Metropolitan District Commission.

Six 250 candle power mazda lamps transferred from Metropolitan District Commission. Changed from one type to another.

Seven 60 candle power series to 125 candle power series.

Twelve 60 candle power mult. to 100 candle power mult.

One 40 candle power series to 125 candle power series.

Two 40 candle power mult. to 60 candle power mult.

Two 40 candle power series to 60 candle power series.

The following table shows the work of setting, repairing and altering lamp-posts, brackets, services, etc.:

	Set for Lamps.	Set in Place of Broken Posts.	Shifted to New Location.	Straight- ened.	Reset to Line and Grade.	Unused Posts Removed.	Repaired.	Laid.	Relaid.	Cleared.	Set in Place of Brackets.	Shades.
Gas posts.....	119	184	26	45	48	103	6	.....	25	313	3	27
Arc posts.....	161	.....	24	.....	28	.....	.....	.....	10	.....	.....	10
Tungsten posts.....	78	.....	4	2	11	13	.....	.....	4	.....	.....	5
Tungsten fixtures.....	128	.....	7	.....	.....	1	.....	.....	3	.....	.....	.....
Gas brackets.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....

The following table shows the number of lamps of various types in use on January 1, 1927, as compared with the number in use on January 1, 1926.

	January, 1927.	January, 1926.	Increase or Decrease.
Single mantle gas.....	9,817	9,750	67
Fire alarm gas.....	145	145	
Magnetite series.....	5,978	5,863	115
Tungsten incandescent.....	5,226	5,009	217
	21,166	20,767	399

### STREET LAMP OUTAGES.

Rebates for lamps not lighted on schedule time or cut before the proper time have been received on the various monthly bills as follows:

DATE.	Arc.	Incan- descent.	Gas.
January, 1926.....	147.19	8.18	30.42
February.....	194.78	7.70	85.42
March.....	109.44	2.33	54.89
April.....	53.54	.96	9.49
May.....	32.73	1.16	5.83
June.....	31.46	1.28	2.87
July.....	40.67	1.17	9.48
August.....	72.84	2.56	9.41
September.....	74.98	2.83	11.22
October.....	85.19	1.75	17.90
November.....	106.03	1.59	12.56
December.....	170.53	15.66	14.75
	1,119.38	47.17	264.26

## GAS LIGHTING.

There are 9,817 single mantle gas lamps and 145 single mantle fire alarm gas lamps.

The city furnishes the lamp-posts, the Gas Company sets the lamp-posts and provides service pipes laid from the gas mains to the top of the posts; maintains all such pipes and posts in good condition and repair; furnishes gas, lanterns, burners and all other necessary equipment, including labor for lighting and care.

The Lighting Service provides for the gas, lighting and care of fire alarm signal lamps and the Fire Department for the posts, setting and repairing of same.

## Gas Lamps.

Lighting Contract.	Gas District.	Number of Lamps.	Type of Lamp.	Rated Candle Power.	Gas Consumed per Hour.	Hours of Burning per Annum.	Cost of Gas per Lamp per Annum.	Cost per Lamp for Lighting and Care per Annum.	Total Cost per Lamp from April 1, 1924.
Boston Consolidated Gas Company.*	South Boston, East Boston, Dorchester, Roxbury, Brighton, West Roxbury.	9,317	Single mantle. Single mantle. F. A. Single mantle. F. A.	60 60	3 feet. 3 feet.	3,886.45 3,886.45	\$11 00 11 00	\$15 20 15 20	\$26 20 26 20
Charlestown Gas and Electric Company.*	Charlestown.....	500 23	Single mantle. Single mantle. F. A.	60 60	3 feet. 3 feet.	3,886.45 3,886.45	11 00 11 00	15 20 15 20	26 20 26 20

\* Ten-year contract approved May 20, 1924.

## ELECTRIC LIGHTING.

There are 5,978 magnetite arc lamps, 3,455 40 candle power; 1,553 60 candle power; 43 100 candle power; 25 125 candle power; 32 250 candle power; 11 700 candle power; 15 1,000-candle power; 23 1,100 candle power; 69 1,500 candle power incandescent lamps.

The electric companies provide and set the lamp-posts, except the lamp-posts for incandescent lamps supplied from underground circuits, furnish lamps, overhead wires, underground conduits, cables and connections and all other necessary equipments and maintain them in good condition and repair.

The lighting rates for electric lamps are in accordance with the following table.

DESCRIPTION OF LAMPS.	Fixed Costs per Lamp per Year from December 7, 1924.	Running Costs per Lamp Hour from December 7, 1924.
40 candle power incandescent lamp, series. . . . .	\$10 00	.22 cent
40 candle power incandescent lamp, multiple. . . .	10 80	.26 cent
60 candle power incandescent lamp, series. . . . .	10 80	.26 cent
60 candle power incandescent lamp, multiple. . . .	12 00	.3 cent
125 candle power incandescent lamp, series. . . . .	13 50	.36 cent
100 candle power incandescent lamp, multiple. . . .	13 50	.36 cent
250 candle power incandescent lamp, series. . . . .	18 00	.6 cent
700 candle power incandescent lamp, multiple. . . .	32 00	1.3 cent
1,000 candle power incandescent lamp, series. . . . .	87 59	1.4 cent
1,100 candle power incandescent lamp, multiple. . . .	34 00	1.4 cent
1,500 candle power incandescent lamp, series. . . . .	36 00	1.5 cent

A deduction at the rate of 1 cent per hour for lamps of 100 candle power or less and 5 cents per hour for all other lamps is made for outages.



## Arc Lamps.

COMPANY.	Number of Lamps.	Connected.	Type of Lamps.	Type of Circuits.	Terminal.	Lighting Hours.	Cost of Lamp per Annum from December 7, 1924.
Edison Electric Illuminating Company.....	{ 1,854	Overhead.	Magnetite.	Series 6.6 amp. D. C.	528	3,827	\$93 42
	{ 3,830	Underground.	Magnetite.	Series 6.6 amp. D. C.	528	3,827	93 42
Charlestown Gas and Electric Company.....	{ 226	Overhead.	Magnetite.	Series 6.6 amp. D. C.	528	3,827	93 42
	{ 68	Underground.	Magnetite.	Series 6.6 amp. D. C.	528	3,827	93 42

NOTE.— In the above the candle power figures are the official designations. The wattage figures are here eliminated.

## Incandescent Lamps.

COMPANY.	Number of Lamps.	Type of Lamps.	Type of Circuits.	Candle Power.	Lighting Hours.	Cost of Lamp per Annum from December 7, 1924.
Edison Electric Illuminating Company.....	2,047	Tungsten.	Series 6.6 amp. D. C.	40	3,827	\$18 42
	1,025	Tungsten.	Series 6.6 amp. D. C.	60	3,827	20 75
	25	Tungsten.	Series 6.6 amp. D. C.	125	3,827	27 28
	1,397	Tungsten.	Multiple D. C.	40	3,827	20 75
	528	Tungsten.	Multiple D. C.	60	3,827	23 48
	43	Tungsten.	Multiple D. C.	100	3,827	27 28
	32	Tungsten.	Series 6.6 amp. D. C.	250	3,827	40 97
	11	Tungsten.	Multiple D. C.	700	3,827	81 76
	23	Tungsten.	Multiple D. C.	1,100	3,827	87 59
	69	Tungsten.	Series 6.6 amp. D. C.	1,500	3,827	93 42
	11	Tungsten.	Series 6.6 D. C.	40	3,827	18 42
	15	Tungsten.	Series 6.6 D. C.	1,000	3,827	87 59
Charlestown Gas and Electric Company.....						

NOTE.— In the above the candle power are the official designations. The wattage figures are here eliminated.

## FINANCIAL STATEMENT, PAVING SERVICE.

## MAINTENANCE.

Appropriation . . . . .	\$1,968,699 92
Transfer from Reserve Fund . . . . .	32,000 00
Transfer from Sanitary Service . . . . .	35,563 09
Transfer from Ferry Service . . . . .	12,485 01
Transfer from Central Office . . . . .	3,351 67
Transfer from Lighting Service . . . . .	1,254 76
Transfer from Sewer Service . . . . .	5,235 00
Transfer from City Debt Requirements, Interest . . . . .	56,000 00
	<hr/> \$2,114,589 45
Transferred to appropriation for street signs . . . . .	25,000 00
	<hr/> \$2,089,589 45
Expended during the year . . . . .	<u>\$2,089,589 45</u>

## SPECIAL APPROPRIATIONS.

*Highways, making of:*

Amount expended during the year . . . . .	<u>\$265,510 71</u>
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## GRANOLITHIC SIDEWALKS.

Balance January 1, 1926 . . . . .	\$277 61
Appropriation from taxes . . . . .	50,000 00
Transfer from Reconstructing and Repairing Streets by contract, . . . . .	50,000 00
	<hr/> \$100,277 61
Expended during the year . . . . .	47,679 92
	<hr/> <u>\$52,597 69</u>

## PERMANENT STREET PAVEMENT.

Balance January 1, 1926 . . . . .	\$57,575 68
Expended during the year . . . . .	<u>57,575 68</u>

## RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT.

Balance January 1, 1926 . . . . .	\$28,322 98
Appropriation from taxes . . . . .	1,000,000 00
	<hr/> \$1,028,322 98
Transfer to granolithic sidewalks . . . . .	50,000 00
	<hr/> \$978,322 98
Expended during the year . . . . .	<u>608,543 17</u>
Balance December 31, 1926 . . . . .	<u>\$369,779 81</u>

## CAMBRIDGE STREET AND COURT STREET.

Expended during the year . . . . .	<u>\$166,765 11</u>
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## DOCK SQUARE AND FANEUIL HALL SQUARE IMPROVEMENT.

Expended during the year . . . . .	<u>\$28,604 60</u>
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## GARAGE, ALBANY STREET.

Balance January 1, 1926 . . . . .	\$206 00
Transfer from North Beacon street, Brighton . . . . .	1,032 77
	<u>\$1,238 77</u>

Expended during the year . . . . .	<u>\$1,238 77</u>
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## GARAGE, HANCOCK STREET YARD.

Balance January 1, 1926 . . . . .	\$33,112 25
Expended during the year . . . . .	32,227 38

Balance December 31, 1926 . . . . .	<u>\$884 87</u>
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## KNEELAND STREET IMPROVEMENT.

Expended during the year. . . . .	<u>\$5,511 63</u>
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## LAND, EAST BOSTON.

Balance January 1, 1926 . . . . .	\$850 00
Expended during the year . . . . .	210 00

Balance December 31, 1926 . . . . .	<u>\$640 00</u>
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## MORTON STREET IMPROVEMENT.

Expended during the year . . . . .	<u>\$151,132 65</u>
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## TREMONT STREET IMPROVEMENT.

Expended during the year . . . . .	<u>\$58,892 47</u>
------------------------------------	--------------------

## DEPARTMENTAL EQUIPMENT.

Loan, inside debt limit . . . . .	\$400,000 00
Expended during the year:	
Sanitary Service . . . . .	\$291,960 60
Paving Service . . . . .	63,244 56
	<u>355,205 16</u>

Balance December 31, 1926 . . . . .	<u>\$44,794 84</u>
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## PAVING SERVICE.

## SUMMARY OF EXPENDITURES.

Paving Service maintenance . . . . .	\$2,089,589	45
Highways, making of . . . . .	265,510	71
Granolithic sidewalks . . . . .	47,679	92
Permanent street pavement . . . . .	57,575	68
Reconstructing and repairing streets by contract, . . . . .	608,543	17
Cambridge street and Court street . . . . .	166,765	11
Dock square and Faneuil Hall square . . . . .	28,604	60
Garage, Albany street . . . . .	1,238	77
Garage, Hancock street yard . . . . .	32,227	38
Kneeland street improvement . . . . .	5,511	63
Land, East Boston . . . . .	210	00
Morton street improvement . . . . .	151,132	65
Tremont street improvement . . . . .	58,892	47
Department equipment . . . . .	*355,205	16
	<hr/>	
	\$3,868,686	70
*Less amount charged to Sanitary Service . . . . .	291,960	60
	<hr/>	
Total . . . . .	\$3,576,726	10
	<hr/>	

## INCOME.

Statement showing the amount of bills and cash deposited with the City Collector from January 1, 1926, to December 31, 1926, and credited to General Revenue:

Edgestones and sidewalk assessments . . . . .	\$4,211	51
Permits . . . . .	32,900	34
Services of inspector . . . . .	1,712	00
Labor, materials furnished, etc. . . . .	13,293	56
	<hr/>	
Total . . . . .	\$52,117	41
	<hr/>	

## AMOUNT PAID INTO THE CITY TREASURY DURING THE YEAR.

Edgestone and sidewalk assessments . . . . .	\$25,407	33
Permits . . . . .	33,132	34
Services of inspector . . . . .	1,722	00
Labor, materials furnished, etc. . . . .	16,224	80
	<hr/>	
Total . . . . .	\$76,486	47
	<hr/>	

## HIGHWAY DIVISION — PAVING SERVICE.

## Work Done by Contract.

	Old.	New.	Total Old and New.
Edgestone set.....	54,078 linear feet.	33,242 linear feet.	87,320 linear feet.
Crushed stone foundation for edgestone.....		3,269 " "	3,269 "
<sup>1</sup> Concrete base laid.....	24,674 square yards.	140,990 square yards.	165,664 square yards.
<sup>2</sup> Granite block pavement laid, gravel base, gravel joints.....	1,879 "	1,338 "	3,217 "
<sup>3</sup> New granite block paving laid, grout joints.....		11,312 "	11,312 "
<sup>4</sup> Recut granite block pavement laid, grout joints.....		67,151 "	67,151 "
<sup>5</sup> Secondhand block paving laid, grout joints.....	349 square yards.	7,774 "	8,123 "
<sup>6</sup> Sheet asphalt on binder laid.....		7,941 "	7,941 "
<sup>7</sup> Bitulithic pavement laid.....	553 square yards.	128,534 "	129,087 "
<sup>8</sup> Concrete pavement laid.....		3,768 "	3,768 "
<sup>9</sup> Wood block pavement laid.....	405 square yards.	324 "	729 "
<sup>10</sup> Bituminous patching, full depth asphalt.....	19,696 "		19,696 "
Bituminous patching, full depth, bituminous concrete.....	18,490 "		18,490 "
Bituminous surface patching.....	13,875 "	6,204 square yards.	20,079 "
Bituminous surface patching, extra binder.....	54 cubic yards.		54 cubic yards.
<sup>11</sup> Artificial stone sidewalks laid.....	3,003 square yards.	82,527 square ynrds.	85,530 square yards.
Brick sidewalks laid.....	2,591 "		2,591 "
Crushed stone and cinder sidewalks laid.....		5,101 square yards.	5,101 "

Steel reinforcement laid.....	22,281 pounds.	22,281 pounds.
Earth excavation.....	33,716 cubic yards.	33,716 cubic yards.
Rock excavation.....	6,590 " "	6,590 " "
Filling furnished.....	16,195 " "	16,195 " "
Crushed stone furnished.....	5,545 tons.	5,545 tons.
Gravel furnished.....	54 cubic yards.	54 cubic yards.
Loam furnished.....	1,170 " "	1,170 " "
Old concrete base removed.....	3,173 square yards.	3,173 square yards.
Covers, catch-basins and Bradley heads set.....	581 " "	581 " "
Wood fence.....	88 linear feet.	88 linear feet.
Ground water drain.....	370 " "	370 " "





Bitulithic, formerly wood block . . . . .	1,884	"	"	
Bitulithic, formerly granite block, pitch joints . . . . .	2,028	"	"	
Bitulithic, formerly granite block, gravel joints . . . . .	8,176	"	"	
Bitulithic, formerly granite block, grout joints . . . . .	2,751	"	"	
Total bitulithic pavement . . . . .				128,534 square yards.
<hr/>				
8 Concrete pavement, formerly gravel roadway . . . . .	3,768	square yards.		
Total concrete pavement . . . . .				3,768 square yards.
<hr/>				
9 Wood block paving, formerly granite block, grout joints . . . . .	324	square yards.		
Total wood block pavement . . . . .				324 square yards.
<hr/>				
10 Bituminous surface patching, formerly macadam roadway . . . . .	28	square yards.		
Bituminous surface patching, formerly granite block, grout joints . . . . .	111	"	"	
Bituminous surface patching, formerly wood block . . . . .	6,064	"	"	
Total bituminous surface patching . . . . .				6,203 square yards.
<hr/>				
11 Artificial stone sidewalks laid, with foundation . . . . .	18,606	square yards.		
Artificial stone sidewalks laid, on existing foundation . . . . .	66,924	"	"	
Total artificial stone sidewalks laid . . . . .				85,530 square yards.
<hr/>				

## Work Done by Paving Service Forces During 1926.

	Old.	New.	Total.
Edges/one set.....	34,542 linear feet.	6,198 linear feet.	40,740 linear feet.
Concrete base laid.....	.....	3,251 square yards.	3,251 square yards.
Roadway, granite block, gravel joints.....	24,190 square yards.	497 " "	24,687 " "
Roadway, granite block, grout joints.....	13,762 " "	881 " "	14,643 " "
Gutter, granite block, gravel joints.....	12,144 " "	1,242 " "	13,386 " "
Gutter, granite block, grout joints.....	412 " "	43 " "	455 " "
Flagging crosswalk, gravel joints.....	1,165 " "	98 " "	1,263 " "
Roadway, wood block, sand joints.....	8,846 " "	.....	8,846 " "
Asphalt penetration macadam surface placed.....	20,113 " "	167,388 square yards.	186,501 " "
Macadam surface patched.....	302,101 " "	.....	302,101 " "
Asphalt blanket coat.....	97,986 " "	.....	97,986 " "
Brick sidewalks laid.....	47,243 " "	95½ square yards.	47,338 " "
Artificial stone sidewalks laid.....	6,169 " "	1,125 " "	7,294 " "
Sidewalk excavating, no sidewalk laid.....	.....	572 " "	572 " "
Roadway excavating, no roadway constructed.....	None.	None.	None.
Roadway excavating, roadway changed.....	4,368 cubic yards.	.....	4,368 cubic yards.
Gravel or crushed stone sidewalks surfaced.....	172,928 square yards.	.....	172,928 square yards.
Grading (no pavement laid).....	.....	2,275 square yards.	2,275 " "
Brick block pavement laid.....	2,945 square yards.	.....	2,945 " "
Concrete roadway laid.....	None.	None.	None.
Rock excavating.....	None.	None.	None.
Concrete roadway, blanket coat.....	.....	2,940 square yards.	2,940 square yards.
Macadam roadway, sanded.....	.....	30,050 " "	30,050 " "

Objects of Expenditures from the Various Appropriations, Classified by Districts, from January 1, 1926, to  
December 31, 1926.

Districts.	Macadam Repairs.	Paved Street Repairs.	Removal of Snow.	Street Cleaning.	Edgestone and Sidewalk Repairs.	Street Work.	Schedule A, Miscellaneous.	Totals.
South Boston and Dorchester North.....	\$17,605 12	\$8,407 32	\$61,682 05	\$4,786 65	\$11,055 74	\$30,497 02	.....	\$134,033 90
East Boston and Breed's Island.....	5,605 35	1,281 62	18,174 10	926 26	10,963 82	70,221 24	.....	113,172 39
Charlestown.....	5,255 80	10,513 47	37,384 96	3,133 30	12,078 20	11,148 87	.....	80,114 60
Brighton.....	28,867 37	70 00	38,778 17	21,839 68	3,624 54	190,262 71	.....	283,442 47
West Roxbury.....	35,148 93	1,036 95	47,322 31	27,491 17	10,512 11	81,423 49	.....	202,934 96
Dorchester.....	28,683 53	726 66	59,709 36	11,353 75	14,044 13	111,153 01	.....	225,670 44
Roxbury South and Jamaica Plain.....	37,951 45	495 42	88,205 26	30,861 29	13,218 83	270,504 63	.....	441,236 88
City Proper.....	17,464 38	24,377 56	443,407 64	450 72	40,174 00	428,725 70	.....	954,600 00
Ashmont.....	16,820 47	386 93	30,334 66	10,787 13	3,778 01	265,566 85	.....	327,674 05
Hyde Park.....	18,471 58	61 50	12,560 15	9,107 88	2,557 73	23,167 79	.....	65,926 63
Miscellaneous.....	.....	.....	.....	.....	.....	1542,111 29	<sup>2</sup> \$497,769 09	1,039,880 38
Totals .....	\$211,873 98	\$47,357 43	\$837,558 66	\$120,737 83	\$122,607 11	\$2,030,782 60	\$497,769 09	\$3,868,686 70

<sup>1</sup> Includes Garage, Albany street, \$1,238.77. Garage, Hancock street yard, \$32,227.38. Land, East Boston, \$210.00. Departmental equipment, \$355,205.16. Artificial stone sidewalks, repairs and rebates, \$14,188.59. Asphalt and bitulithic repairs, \$121,190.35, and recutting and redeeming old granite blocks, \$17,851.04.

<sup>2</sup> Includes artificial stone sidewalks, new and repairs, \$34,990.55. Asphalt and bitulithic repairs, \$22,742.07. Wood block and brick block repairs, \$18,248.34.

## SCHEDULE A.

## EXPENDITURES FOR FISCAL YEAR 1926.

Salary of division engineer (part of)	\$3,749 94
Salary of engineer in charge (part of)	183 33
Salaries of office clerks and stenographers	10,271 24
Salaries of assistant engineers (office work)	18,560 63
Salaries of permit office clerks	12,294 39
Salaries of permit office inspectors	24,124 69
Salaries of engineering inspectors (office work)	17,059 81
Salaries of district inspectors	1,587 91
Salary of medical inspector (part of)	400 00
Medical attendance on injured employees (outside)	262 50
Salary of general foreman	3,000 00
Salary of chief veterinarian (part of)	500 00
Salary of inspector of horses	1,600 00
Salary of chief permit inspector and investigator	2,119 48
Salary of property inspector	1,705 36
Pensions paid to veterans (retired)	5,742 85
Pensions paid to laborers (retired)	14,354 42
Compensation allowed injured employees	4,267 43
Vacations allowed laborers, mechanics, etc.	37,556 65
Holidays not including holidays charged to street accounts	80,730 23
Military duty	258 25
Postage	367 71
Printing	3,699 14
Stationery	1,604 90
Traveling expenses, car fares, etc.	1,420 01
Engineering supplies and incidentals	2,804 83
Stationery	\$535 05
Printing	545 49
Postage	86 56
Transit repairs	331 80
Transit and rods	446 10
Meals	468 75
Miscellaneous	391 08
Artificial stone sidewalks, new and repairs by department force and contractors. (See reconstructing and repairing streets by contract),	34,990 55
Asphalt and bitulithic pavement repairs. Temporary repairs, labor, teaming, materials. (See reconstructing and repairing streets by contract),	22,742 07
Brick block repairs, labor, teaming, materials	4,852 77
Wood block repairs, labor, teaming, materials	13,395 57
<i>Carried forward</i>	<u>\$326,206 66</u>

<i>Brought forward</i>	\$326,206 66
Crosswalks repaired, not included elsewhere	848 32
Fence repairs	3,778 91
Plankwalk repairs	1,077 59
Edgestone, sidewalks and gutters (new) not included elsewhere	16,351 62
Rent of land, wharves, etc.	2,822 00
Expense of stables, including drivers, feeders, fodder, horse-shoeing, repairs to harnesses, wagons, carts, etc.	\$138,964 28
Amount earned by department teams	127,241 75
	<hr/>
	11,722 53
Electric lighting at yards and stables	1,558 56
Gas lighting at yards and stables	256 23
Fuel, for heating offices, buildings and stables	3,639 66
Electric appliances, labor and materials, yards and stables	29 67
Rent of towels	178 20
Stoves, pipes, grates, etc.	125 91
Telephone rentals and tolls	2,003 20
Ice	109 38
Signs, making, repairing, putting up, etc.	22,584 12
Tools, hardware, etc., new, cost of repairing, etc.	47,814 18
Oil for lighting around defects, etc.	1,779 42
Expenses of yards, including salaries of foreman, clerks, yardmen, watchman, tool wagons, etc.	62,767 26
Repairs of yard buildings, stables, sheds, shanties, etc.	16,814 90
Sanding icy and slippery streets	7,523 19
Repairing culverts	123 97
Chests for Central Office, making of	177 55
Premium on surety bonds	12 00
Traverse street subway	1,330 50
Derrick repairs	68 15
Repairs to and inspection of typewriters and adding machines	119 70
Repairs to snow dumps	1,421 79
Work done and materials furnished other services, other departments, individuals, corporations, etc.	12,000 63
Furniture and repairs to same	11 00
Miscellaneous	5,844 21
Photographs	26 50
Stone crusher, South End District, operating supplies, etc.	12,268 80
Garage, Albany street, employees' wages, fuel, gasoline, supplies, repairs, etc.	39,605 72
	<hr/>
<i>Carried forward</i>	\$603,002 03

<i>Brought forward</i>			\$603,002 03
Garage, Hancock street, employees' wages, fuel			
gasolene, supplies, repairs, etc.			5,915 70
Steam rollers:			
Cost of operating, repairs, supplies, etc.	\$23,202 43		
Amount earned	22,881 00		
			<hr/> 321 43
Buffalo Springfield steam roller, 15 tons			6,950 00
Wehr snow loader and grader			1,958 50
Barber-Green snow loaders (2)			11,097 60
Automobiles:			
One Reo speed wagon			1,340 00
Three Reo sedans			5,615 00
One Willys-Knight sedan			1,625 00
Seven Whippet sedans			5,049 50
			<hr/> \$642,874 76
Credits:			
Asphalt plant, Brighton:			
Value of material used on streets	\$35,664 75		
Operating expense, repairs, etc.	34,428 99		
		\$1,235 76	
Amount earned by cement mixers		931 11	
Amount earned by tractors		407 11	
Automobiles:			
Amount earned	\$153,949 50		
Cost of operation repairs, etc.	88,793 25		
		65,156 25	
Stock:			
Materials delivered on streets	\$194,244 16		
Cost of materials	\$104,291 32		
Labor, handling and teaming	21,978 10		
		126,269 42	
		67,974 74	
Snow loaders:			
Amount earned	\$16,273 75		
Cost of operating, etc.	6,873 05		
		9,400 70	
		145,105 67	
			<hr/> \$497,769 09

## Snow and Ice Removed by Contract from January 1, 1926, to December 31, 1926.

District.	Contractor.	Number of Loads.	Cubic Yards.	Cost per Cubic Yard.	Total Cost.	Remarks.
1.	{ J. A. Singarella Hugh Nawn, Inc.	3,366 2,484	29,612 $\frac{1}{2}$ 19,520	\$0 60 55	\$17,767 50 10,736 00	1925 contract. 1926 contract.
2.	{ M. F. Gaddis Leo J. Nawn, Inc.	850 1,034	9,226 $\frac{1}{2}$ 9,209	45 55	4 151 93 5,064 95	1925 contract. 1926 contract.
3.	{ Ormae Company B. E. Grant Company	521 1,895	4,264 20,471 $\frac{1}{2}$	49 55	2,089 36 11,259 33	1925 contract. 1926 contract.
4.	{ Ormae Company Coleman Brothers.	1,967 6,165	19,986 $\frac{1}{2}$ 29,555 $\frac{1}{2}$	57 60	11,392 31 17,973 30	1925 contract. 1926 contract.
5.	{ Joseph P. McCabe Ormae Company	2,090 1,725	17,487 13,803	62 60	10,841 94 8,281 80	1925 contract. 1926 contract.
6.	{ A. G. Tomasello & Son T. J. McCue Company	3,473 2,986	27,498 25,652	70 65	19,248 60 16,673 80	1925 contract. 1926 contract.
7.	{ M. F. Gaddis M. F. Gaddis	3,493 2,742	28,780 $\frac{1}{2}$ 21,701 $\frac{1}{2}$	50 50	14,390 25 10,850 75	1925 contract. 1926 contract.
8.	{ J. C. Coleman & Sons T. J. McCue Company	4,983 2,794	36,133 22,728	52 50	18,789 16 11,364 00	1925 contract. 1926 contract.
9.	{ Standard Contracting Company Coleman Brothers.	1,453 1,367	13,722 $\frac{1}{2}$ 12,317 $\frac{1}{2}$	60 60	8,233 44 7,390 50	1925 contract. 1926 contract.
10.	{ J. J. McCarthy & Co. J. J. McCarthy & Co.	1,712 2,592	13,721 $\frac{1}{2}$ 22,648 $\frac{1}{2}$	53 50	7,272 40 11,324 25	1925 contract. 1926 contract.

*Extra Districts.*

CONTRACTOR.	Number of Loads.	Cubic Yards.	Cost per Cubic Yard.	Total Cost.	Remarks.
B. E. Grant Company.....	2,395	27,503	\$0 75	\$20,627 25	1925 contract.
Hugh Nawn Contracting Company.....	2,202	18,921	60	11,352 60	1925 contract.
Coleman Brothers, Inc.....	7,283	69,386½	60	41,631 90	1925 contract.
James W. O'Brien.....	1,269	9,334	60	5,600 40	1925 contract.
John W. O'Connell.....	542	4,339½	60	2,603 70	1925 contract.
DeStefano Brothers.....	1,438	14,121	50	7,060 50	1925 contract.
The Pierce Company, Inc.....	639	3,098	60	1,858 80	1925 contract.
Ormac Company.....	436	3,550½	75	2,662 88	1925 contract.
D. M. Biggs Company.....	.....	.....	*	5,658 00	1926 contract.
James Byrne.....	772	6,375	60	3,825 00	1926 contract.
Coleman Brothers.....	2,666	19,801½	60	11,880 90	1926 contract.

\* Force account.



**The Number of Loads of Snow Removed from January 1, 1926, to  
December 31, 1926.**

DISTRICT.	Single.*	Double.†	Auto Trucks.‡	Cubic Yards.	Cost.§
South Boston.....	1,297	3,623	10,706	77,699	\$43,085 40
East Boston.....	1,831	.....	74	4,106	18,174 10
Charlestown.....	3,403	1,082	100	10,652	25,504 06
Brighton.....	.....	248	3,371	20,970	38,778 17
West Roxbury.....	1,228	2,774	3,793	33,536	47,322 31
Dorchester.....	2,347	1,319	4,691	36,797	57,850 56
Roxbury.....	2,684	836	1,431	16,462	88,205 26
City Proper.....	909	.....	19,554	119,142	129,228 80
Ashmont.....	3,516	1,799	1,166	19,425	30,334 66
Hyde Park.....	586	652	1,051	9,434	12,560 15
Totals.....	17,801	12,333	45,937	348,223	\$491,043 47

\* Single loads, 2 cubic yards.

† Double loads, 3 cubic yards.

‡ Auto truck loads, 6 cubic yards.

§ Includes cost of plowing gutters, cleaning sidewalks and picking ice not carted away.  
Also automobile snow plows furnished by contractors.

**New Granolithic Sidewalks Laid by Department Forces During 1926.**

DISTRICT.	Square Feet.	Location of Work.
South Boston.....	—	
East Boston.....	—	
Charlestown.....	—	
Brighton.....	495	Sutherland road.
West Roxbury.....	554	Beryl street.
Dorchester.....	1,202	Arcadia terrace.
Roxbury.....	—	
South End.....	7,873	Massachusetts avenue, Beacon street, Stuart street.
Ashmont.....	—	
North End.....	—	
Hyde Park.....	—	
Totals.....	10,124	

## Edgestone and Brick Sidewalk Recapitulation for 1926.

DISTRICT.	Edgestone, Linear Feet.	Brick Sidewalk, Square Yards.
South Boston, Paving District, No. 1.....	269	23½
East Boston, Paving District, No. 2.....	585	21
Charlestown, Paving District, No. 3.....	—	—
Brighton, Paving District, No. 4.....	628	—
West Roxbury, Paving District, No. 5.....	324	—
Dorchester, Paving District, No. 6.....	1,339	—
Roxbury, Paving District, No. 7.....	1,091	51
South End, Paving District, No. 8.....	206	—
Ashmont, Paving District, No. 9.....	1,367	—
North End, Paving District, No. 10.....	—	—
Hyde Park, Paving District, No. 11.....	389	—
Totals.....	6,198	95½

Loads of Dirt and Street Cleanings Removed from January 1, 1926, to  
December 31, 1926.

DISTRICT.	Single.*	Double.†	Auto Trucks.‡	Cubic Yards.
South Boston.....	32	1,246	1,108	9,172
East Boston.....	271	—	—	271
Charlestown.....	138	—	—	138
Brighton.....	1,179	351	1,844	12,945
West Roxbury.....	2,663	4,773	3,219	31,523
Dorchester.....	551	439	203	2,647
Roxbury.....	2,978	1,223	946	11,100
South End.....	5	—	17	107
Ashmont.....	1,967	418	268	4,411
North End.....	—	—	—	—
Hyde Park.....	1,000	300	85	2,110
Totals.....	10,784	8,750	7,690	74,424

\* Single loads, 1 cubic yard.

† Double loads, 2 cubic yards.

‡ Auto truck loads, 6 cubic yards.

# PUBLIC WORKS DEPARTMENT — HIGHWAY DIVISION — PAVING SERVICE.

## Maintenance of Macadam Streets.

*Cost by Years of Resurfacing or Patching from February 1, 1922, to December 31, 1926.*

	1922.	1923.	1924.	1925.	1926.
Total length of macadam in miles.....	358.47	351.25	347.63	343.50	340.24
Total area of macadam in square yards.....	6,079,424	5,926,385	5,789,425	5,708,269	5,269,035
Total cost of resurfacing of macadam*.....	\$69,752 09	\$57,883 32	\$40,032 79	\$111,541 74	\$100,246 23
Total cost of patching of macadam†.....	\$173,332 36	\$196,758 28	\$251,026 22	\$231,916 92	\$305,664 98
Cost of resurfacing per mile over entire mileage.....	\$194 86	\$164 79	\$115 16	\$324 72	\$294 64
Cost of resurfacing per square yard over entire area.....	\$0 0115	\$0 0007	\$0 0069	\$0 0195	\$0 0178
Length of macadam resurfaced yearly in miles.....	5.538	3 322	1 905	4 939	4 893
Cost per mile of macadam resurfaced yearly.....	\$12,595 00	\$17,424 23	\$21,014 58	\$22,583 89	\$20,487 64
Area of macadam resurfaced yearly in square yards.....	75,646	47,870	27,461	82,648	67,419
Cost per square yard of macadam resurfaced yearly.....	\$0 9221	\$1 2091	\$1 46	\$1 34	\$1 49
Area of macadam patched yearly in square yards.....	483,013	324,187	452,260	329,801	450,702
Cost per square yard of macadam patched yearly.....	\$0 359	\$0 6069	\$0 555	\$0 703	\$0 678
Binders used in resurfacing (per cent):					
Water.....	.2129	.0000	.0000	.0000	.0000
Tax preparation.....	.0180	.0000	.0000	.0084	.0000
Asphalt preparations.....	.7691	1 0000	1 0000	.9916	1 0000

\* By resurfacing is meant entire area of street excavated and resurfaced with not less than four inches of new material.

† By patching is meant scattered areas of depressions, etc., which are filled with new material from a depth of one half inch up, and in some cases blanket coated with bituminous binder.

400,637 square yards patched; 50,065 square yards asphalt blanket coat.

## STREET OPENINGS.

Under Classes 1 and 2 of the schedule of permit fees, permits were issued for openings in public ways, as follows:

TO WHOM ISSUED.	Number of Permits.	Length of Feet.
Sewer and Water Services.....	3,750	45,000
Boston Consolidated Gas Company.....	2,252	56,300
Boston Elevated Railway.....	186	27,900
Dedham and Hyde Park Gas and Electric Light Company.....	84	2,100
Edison Electric Illuminating Company.....	4,831	338,170
Miscellaneous.....	2,892	144,600
New England Telephone and Telegraph Company.....	756	56,800
Emergency permits used and returned.....	793	19,825
	15,544	690,695

Making a total length of openings approximately one hundred thirty miles. Total of all permits issued, 24,299.

Permits for other than street openings have been issued as follows:

Cleaning snow from roof . . . . .	78
Erecting and repairing awnings . . . . .	490
Erecting and repairing buildings . . . . .	1,433
Painting or minor repairs on buildings . . . . .	4,348
Moving buildings in streets . . . . .	18
Feeding horses in streets . . . . .	9
Placing signs flat on buildings . . . . .	1,318
Raising and lowering safes, etc. . . . .	89
Emergency for above . . . . .	415
Special permits . . . . .	557
Total . . . . .	<u>8,755</u>

The revenue from issuing permits amounted to \$32,900.34. Of this amount \$26,823.34 was deposited with the City Collector and \$6,077 was billed to public service corporations.

## BONDS.

There are now on file 2,680 surety bonds, in amounts of one, three and twenty thousand dollars, covering the city against claims for damages, etc., through the use of permits.





## PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION — PAVING SERVICE — DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "GRANOLITHIC SIDEWALKS."

STREET	From	To	Contractor	Pavement	Length, Linear Feet	Area, Square Yards	Total Cost	Amount Paid to Contractor	MATERIALS								EXPENSES					WORK DONE						PROGRESS
									FOREGING		GRANITE BLOCK		SIDEWALK BRICK		MISCELLANEOUS		Engineering	Inspection	Traveling, etc.	Advertising	Miscellaneous	Excavation and Filling	Edgework Set and Reset	Brick Sidewalk Laid and Relaid	Roadway Paved and Repaved	Artificial Stone Sidewalk Laid	Miscellaneous	
									Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity												
1 Alder street	Tranlin street	Exrett street	Henry F. Malley	Artificial stone walks	1,061	13,300	\$6,430.00	\$3,095.27	\$2,955.23	1,800	1						\$418.82	\$136.23	\$7.55	\$2.20			1,905		1,905	Unfinished	1	
2 Adelaide street	Burlington street	Spring Park avenue					110.91										109.11		1.80							Not started	2	
3 Ashmont street	Carruth street	Adams street					621.65		269.48	270							337.87		5.69	8.50						Not started	3	
4 Bullard street	North side at New St. 31, 33, 35		J. J. McCarthy & Co.	Artificial stone walks	129	521	343.19	288.42									10.26	17.26		1.25		1/2	129		29	\$21.	Completed August 18, 1926	4
5 Central avenue	River street	Webster street					123.74										120.34		3.40							Not started	5	
6 Corum street	Arden street	Westview street	J. J. McCarthy & Co.	Artificial stone walks	226	2,034	717.09	205.26	212.64	159	\$108.00						61.00	54.32	1.10	4.37			100		76	\$15	Unfinished	6
7 Dano street	Elbow street	About 75 feet westerly	J. J. McCarthy & Co.	Artificial stone walks	87	391	376.40	176.55	128.45	84	21.00						45.75		40	1.25			91	2	33		Completed August 30, 1926	7
8 De Wolf street	Danvers street	Doune avenue					49.76										48.00		1.76							Not started	8	
9 Edlington street	Erin street	Greenwood street	S. J. Tomasello	Artificial stone walks	1,080	7,230	2,660.68	1,899.15	226.05	145	126.00						110.78	110.10		1.00			308	5	264	7,256	Completed November 23, 1926	9
10 Elm Hill avenue	(East side) Sawyer street	About 120 feet westerly	J. J. McCarthy & Co.	Artificial stone walks	147	4,728	2,066.01	1,496.95	243.91	153							191.85	110.61		2.50		6 1/2	149		15	4,728	Completed August 13, 1926	10
11 Elton street	Dorchester street	Sagamore street					109.70										105.53		2.00	2.20						Not started	11	
12 Evans street	(North side) Capen street	Dyer street	J. J. McCarthy & Co.	Artificial stone walks	166	1,153	938.41	445.15	252.67	160	96.00						126.66	34.52	2.16	1.25		1/2	183		67	1,153	Completed September 29, 1926	12
13 Farmington avenue	Harvard avenue	London street	Henry F. Malley	Artificial stone walks	511	1,411	2,056.19	1,310.80	246.00	196	246.00						118.78	62.66	10.05	2.20			686		259	4,444	Completed November 23, 1926	13
14 Foster street	At New St.		J. J. McCarthy & Co.	Artificial stone walks	69	402	371.76	144.05	13.86								145.04	28.77	3.89	1.25			75		17	402	Completed September 27, 1926	14
15 Hanahan street	(North side at New St. 80 & 84		J. J. McCarthy & Co.	Artificial stone walks	183	1,119	365.76	316.15	27.72	8							20.58		66	1.25		1/2	17	2	13	1,149	Completed August 19, 1926	15
16 Kettredge street	Washington street	Rosehill street	Martino De Mattos	Artificial stone walks	1,639	21,216	11,217.78	5,829.10	4,360.25	2,710							819.20	187.63	13.60	5.00		9	2,535		21,216	Completed November 15, 1926	16	
17 Lockwood avenue	M. N. St.		J. J. McCarthy & Co.	Artificial stone walks	130	856	565.11	317.50	185.75	124							60.23		39	1.25			125		44	776	Completed August 30, 1926	17
18 Four-Prange street	Huntington avenue	Fanshway					167.29										163.40		1.60	2.20						Not started	18	
19 Maple street	(West side) Oak street	Pine street	John Lundy	Artificial stone walks	528	3,086	1,950.41	1,784.74	25.98	8	140.75	1					189.52	120.82	1.50	3.00			549		190	3,686	Completed August 25, 1926	19
20 Oak street	(South side) Maple street	100 feet westerly	John Lundy	Artificial stone walks	298	1,235	759.17	109.05			84.60						12.52			3.00			100		66	1,235	Completed July 27, 1926	20
21 Parliament street	Dorchester avenue	Adams street	J. J. McCarthy & Co.	Artificial stone walks	1,268	15,965	5,149.45	1,995.18	221.74	8							355.93	182.60	6.40	4.38	\$11.00		2,242		832	15,467	Completed November 26, 1926	21
22 Pine street (north-east side)	Dyer Park avenue	Maple street	John Lundy	Artificial stone walks	476	3,289	1,678.88	1,736.82	91.80	7	195.00						143.03	51.78		4.00			438		162	3,289	Completed August 13, 1926	22
23 Richmond street	Dorchester avenue	Washington street					10.00										10.00									Not started	23	
24 Roll street	Hampden street	Went street					399.76										98.00		1.76							Not started	24	
25 Robin Hood street (south side)	West side of Green street at Barnhill street		J. J. McCarthy & Co.	Artificial stone walks	257	1,501	1,315.30	851.52			24.00						280.12	265.81	1.15	2.50		13	257		86	1,501	Completed September 20, 1926	25
26 Robinson street	Adams street	Dyer street	Michael D. Ryan	Artificial stone walks	850	7,174	4,555.67	2,800.81	1,744.40	985	267.00						268.19	212.18	5.06	8.00		6	1,233	78	441	7,474	Completed October 2, 1926	26
27 Rosemont road	Washington street	Fanshway street	S. J. Tomasello	Artificial stone walks	1,159	17,420	713.74	84.72	580.82	391							211.20		3.00	3.00						Unfinished	27	
28 St. John street	Centre street	London street					158.25										153.25		3.10	2.20						Not started	28	
29 Sunset street	Hillside street	Lincoln Hill avenue	S. J. Tomasello	Artificial stone walks	113	3,845	3,162.54	1,639.36	964.95	624	271.00						187.64	79.90	4.60	3.00			368	5	511	4,116	Completed December 13, 1926	29

\* Credit (old blocks), \$2.41

\* Credit (old blocks), \$17.00

\* Credit (old blocks), \$115.50

\* Credit (old edgework), \$18.60

\* Credit (old blocks), \$18

\* Credit (old blocks), \$24.50

\* Credit (old blocks), \$14

\* Credit (old blocks), \$36.45

\* Credit (old blocks), \$5.4

\* Credit (old blocks), \$30

\* Credit (old blocks), \$165





## PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION — PAVING SERVICE — DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "HIGHWAYS, MAKING OF."

										MATERIALS				EXPENSES				WORK DONE.						PROGRESS.			
STREET	Loc.	Contractor	Pavement	Length, Linear Feet	Area, Square Yards	Total Cost	Amount Paid to Contractor	EMPTINGS		GRANITE BLOCK		SIDEWALK DRIVE		MISCELLANEOUS		Engineering	Inspection	Travelling etc.	Alterations	Miscellaneous.	Excavation and Filling.	Erection and Rest.	Brick, Sidewalk and Land.		House, Paved and Repaired.	Artificial Stone and Subgrade.	Miscellaneous.
								Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity												
1	Albion street	South street	Old Colony Railroad	Buttath	510	1,218	\$9,738.00	\$6,388.15	\$652.60	630	\$119.60					\$172.45	\$182.60	\$6.80	\$14.00	\$379.50	488	675	1,362	3,033	Completed October 14, 1926		
2	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
3	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
4	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
5	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
6	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
7	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
8	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
9	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
10	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
11	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
12	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
13	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
14	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
15	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
16	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
17	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
18	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
19	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
20	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
21	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
22	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
23	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
24	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
25	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
26	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
27	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
28	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
29	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
30	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
31	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
32	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
33	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
34	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
35	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
36	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
37	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
38	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
39	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
40	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
41	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
42	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
43	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
44	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
45	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
46	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
47	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
48	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
49	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
50	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
51	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
52	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
53	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
54	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
55	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
56	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
57	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
58	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
59	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00									Work not started		
60	Albion street	Albion street	Albion street	Buttath	1,218	1,218	1,411.15	1,411.15	15.50							\$102.00											



# PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION - PAVING SERVICE--DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "SPECIAL APPROPRIATIONS."

No.	From	To	Contractor	Payment	Length, Linear Feet	Area, Square Yards	Total Cost	Amount Paid to Contractor	MATERIALS								EXPENSES					WORK DONE						Progress	
									ROBBERSTONE		GRAVEL, FILLING		SIDEWALK BLOCK		SPECIAL SETTING		Engineering	Inspection	Traveling, etc.	Advertising	Miscellaneous	Excavation and Filling	Edge Stone Set and Back	Brick, Set with Land and Road	Roadway Paved and Repaved	Artificial Stone Sidewalk Land	Miscellaneous		
									Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity													
1	Centering and Court streets		S. J. Thomas & Co.	Granite block	2,333	27,614	\$166,690.41	\$493,005.56	\$578.02	231	\$29,838.91	4,56,674	\$108.94				\$1,994.54	\$1,220.34	\$19.45		\$7,145.81	13,107	1,111	1,011	20,499	66,102	Completed June 11, 1926	1	
2	Dock square and Faneuil Hall square improvement			Removing buildings			28,694.60	\$15,670.75							\$4.75		\$28.90	1,009.05	\$4.19	\$8.50	\$1,139.36						Unfinished	2	
3	Garage, Hancock Street Yard		J. A. Suggs & Co.	Construct garage			\$2,227.38	\$27,697.00							2,584.50		\$28.48		6.15		38.51						Completed	3	
4	Kneeling street improvement			Removing buildings, etc.			\$5,511.63	\$685.10							9.00		\$75.75	276.12	1.40	\$8.50	\$,752.89						Unfinished	4	
5	Morton street improvement	Morton road	Canterbury street	J. C. Coleman & Sons	Brickthru	1,057	27,326	\$10,159.39	\$33,564.65	\$1,022.84	6,900	\$114.00					\$,157.55	1,611.63	104.50	\$8.25	\$,571.18	21,720	7,897	\$4,130	\$8,724	Completed September 4, 1926	5		
6	Tremont street improvement	Stuart street	Bridge over Boston & Albany Railroad	J. C. Coleman & Sons	Brickthru	1,040	30,326	\$8,761.75	\$46,806.91	\$284.31		\$,154.80	\$4,500				\$,400.84	1,229.99	32.45	\$9.00	\$,045.20	951	2,002	10	11,267	\$2,556	Completed November 15, 1926	6	
7	Departmental equipment and new trucks						\$35,265.16											1,154.56											7
8	Garage, Albany Street Yard		Mullhall & Holmes	Architectural services			\$1,208.77																						8
9	Land East Boston			Legal services			\$19.00																						9

\*\$1,515, amount paid to Archibald & Sullivan -- wall and fence

\*William Perry, \$80; Martin H. Ryan, \$13,570.75; City Building Wrecking Company, \$1,900

\*\$1,012.50, amount paid to Mullhall & Holmes architects

\* New England Building Wrecking Company, \$355; New England Contracting Company, \$420

\* Under outwalks

\* Final payment 1925 contract, \$604

\* Twenty White trucks, \$117,000; 20 Mack trucks, \$114,768; 10 American-LaFrance trucks,

\$61,800; 10 Daimler trucks, \$50,342.60

\* Execution of Court

Cost of blasting rock	1 Credit edgepiece	1 Dr
Patching and blanket coated with asphalt	1 Gravel subbase	1 Dr
Work done in 1925	1 Include tractor	1 Dr
Concrete base	1 Sub-grade (square yards)	1 Dr
100 square yards Asphalt macadam over existing	1 Extravelling roadway Asphalt laid by contractor	1 Dr
Cost of asphalt surface	1 Tractor	1 Dr
Asphalt mixture	1 Blanket coated with asphalt (square yards)	1 Dr
Cost of base, 10 inches deep	1 Driveway graded	1 Dr

- 12 Driveway (block) repaved
- 13 Driveway graded, includes \$207 ls for building wall
- 14 Curb/gutter
- 15 Finish-laid sidewalks
- 16 Also reset two large corners and five small corners
- 17 Includes 51 1/2 square yards brick sidewalks and 440 1/2 square yards gravel sidewalks
- 18 Nails
- 19 Gravel joints
- 20 Graded
- 21 Tur mixture sidewalks
- 22 Excavating artificial and tar sidewalks
- 23 Laying artificial and tar sidewalks
- 24 Hauling stock
- 25 Also set six small corners
- 26 Filling



# PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION PAVING SERVICE DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT."

No.	Locality	Contractor	Pay Item	Length, Linear Feet	Area, Square Yards	Total Cost	Amount Paid to Contractor	MATERIALS				EXPENSES				WORK DONE					Miscellaneous	PROGRAM									
								EDGESTONE		GRANITE BLOCK		SIDEWALK BRICK		MISCELLANEOUS		Engineering	Inspection	Traveling, etc.	Advertising	Miscellaneous			Work Done								
								Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity								Cube Yards	Linear Feet	Square Yards	Square Yards	Square Feet				
Part street	Bridge street	Central Construction Company	Reconst granite block and bitulith	2,400	12,050	\$11,188.50 12,190.35 12,202.15	\$10,934.32 10,888.04	\$132.17					\$12,694.12 792.20	\$5,146.14 548.37	\$215.65 9.00	\$8.00 9.00	\$95.12	152	2,637		13,179	10,823	Completed October 4, 1926 Completed October 10, 1926	1 2							
Main street	Bridge	J. J. Kennedy Construction Company	Bitulith	455	1,038	5,147.45 5,196.86 5,286.23	3,327.45 3,195.88 3,280.11	27.72					248.15 234.14 119.13	3.32 1.20 2.25					84%		1,948	4,113	Work not started Completed November 15, 1926	3 4							
Washington street	Washington street	J. J. Kennedy Construction Company	Bitulith	167	987	5,480.23 5,480.23 5,480.23	3,195.88 3,195.88 3,195.88	21.75					201.01 189.93 21.09	68.34 21.09 13.00	3.40 3.40 9.00				76%	142	997	3,403	Work not started Completed November 18, 1926 Completed September 23, 1926	5 6 7							
Washington street	Washington street	Henry J. Malley	Reconst granite block	2,400	12,225	55,924.05 55,924.05 55,924.05	45,377.35 45,377.35 45,377.35	12,736.50		\$400.40			3,117.42 37.36 740.71	1,070.18 9.50 1,078.87	77.20 9.50 20.35	8.00 9.50 9.50	38.00		2,461	41	11,943	1,906	Completed August 21, 1926 Work not started Completed October 15, 1926	8 9 10							
Washington street	Washington street	J. J. Malley Company	Reconst granite block	2,675	10,675	15,135.29 15,135.29 15,135.29	32,674.92 32,674.92 32,674.92	250.64		1,562.00			100.90 100.90 363.40	38.95 38.95 6.00	1.10 1.10 1.90	1.90	13.50		499	30	777	2,646	Work not started Completed September 21, 1926 Work not started	11 12 13							
Washington street	Washington street	Henry J. Malley	Bitulith	428	744	2,384.15 2,384.15 2,384.15	2,292.59 2,292.59 2,292.59						8.00 11.00 8.00		1.90 1.90 1.90								Work not started Work not started Work not started	14 15 16							
Washington street	Washington street	A. DeSoto Sons	Wood block	72	321	108.28 108.28 108.28	315.96 315.96 315.96						17.99 66.44 124.12	37.92 39.28 2.40	1.70 7.50 2.40					13.50	711	21	1,754	4,829	Completed October 10, 1926 Completed September 21, 1926 Work not done	17 18 19					
Washington street	Washington street	Henry J. Malley	Bitulith	464	1,734	5,917.91 5,917.91 5,917.91	5,615.34 5,615.34 5,615.34	1,80.90					175.18 188.40 10.00	15.48 118.56 11.52	3.40 10.00					13.70	586	6	919	3,237	Completed September 22, 1926 Completed August 25, 1926 Work not done	20 21 22					
Washington street	Washington street	J. J. Kennedy Construction Company	Granite block	118	1,724	9,046.95 9,046.95 9,046.95	5,649.00 5,649.00 5,649.00	28.20		3,540.00			934.64 210.73 512.48	11.94 2.22 1.25	9.00 9.00 9.00							433	1,724	1,537	Work done in 1921 Work not started Completed July 1, 1926	23 24 25					
Washington street	Washington street	Henry J. Malley	Bitulith	731	2,496	7,240.41 7,240.41 7,240.41	6,662.41 6,662.41 6,662.41	60.00					151.14 548.06 59.87	227.87 138.00 25.78	3.50 3.50 3.50	5.00	55.50					363	2,396	3,309	Work not started Completed September 21, 1926 Work not done	26 27 28					
Washington street	Washington street	J. J. Kennedy Construction Company	Reconst granite block	2,400	12,050	24,964.47 24,964.47 24,964.47	23,950.63 23,950.63 23,950.63	18.00					1,881.74 539.87 116.11	1,462.04 6.56 1.65	46.21 6.56 2.20	8.50 2.20 2.20							1,386	25	4,270	9,858	Completed November 26, 1926 Completed October 1, 1926 Completed December 1, 1926	29 30 31			
Washington street	Washington street	J. J. Kennedy Construction Company	Bitulith	464	1,734	5,917.91 5,917.91 5,917.91	5,615.34 5,615.34 5,615.34	1,80.90					1,669.28 36.10 116.11	664.48 52.10 1.65	8.50 8.50 9.00	8.50							3,577	428	7,792	34,497	Work not done Completed November 6, 1926 Work done in 1926	32 33 34			
Washington street	Washington street	A. DeSoto Sons	Reconst granite block	2,097	7,070	31,031.55 31,031.55 31,031.55	27,716.95 27,716.95 27,716.95	482.17		1,137.00			1,306.74 1,669.28 36.10	128.35 664.48 52.10	25.72 8.50 9.00	9.00							45		1,248		Work not done Completed August 28, 1926 Work not done	35 36 37			
Washington street	Washington street	J. J. Kennedy Construction Company	Reconst granite block	414	1,248	1,417.38 1,417.38 1,417.38	3,860.79 3,860.79 3,860.79			405.00			540.38 47.09 26.00	10.52 34.32 3.75		1.90									1,977	98	6,036	13,144	Completed October 13, 1926 Work not done	38 39 40	
Washington street	Washington street	S. J. Tomasello	Reconst granite block	1,472	4,036	24,726.32 24,726.32 24,726.32	20,841.05 20,841.05 20,841.05	72.55		2,214.00			964.29 37.00 141.84	338.18 3.75 173.09	8.50 8.50 5.80	8.50										1,444	122	1,998	5,611	Work done in 1926 Completed September 20, 1926 Completed November 27, 1926	41 42 43
Washington street	Washington street	William T. Ryan	Bitulith	165	930	17,851.04 17,851.04 17,851.04	17,851.04 17,851.04 17,851.04						295.77 336.52 336.52	124.40 173.09 2.50		8.00													Work not started	44 45 46	
Washington street	Washington street	J. J. Kennedy Construction Company	Bitulith	836	1,968	4,499.24 4,499.24 4,499.24	4,337.94 4,337.94 4,337.94	106.30					336.52 336.52 336.52	343.45 343.45 343.45	5.00	207.00													Completed September 22, 1926 Completed September 23, 1926 Unfinished	47 48 49	
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	50 51 52		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	53 54 55		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	56 57 58		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	59 60 61		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	62 63 64		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	65 66 67		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	68 69 70		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	71 72 73		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	74 75 76		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	77 78 79		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	80 81 82		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	83 84 85		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	86 87 88		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	89 90 91		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	92 93 94		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	95 96 97		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	98 99 100		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00												Completed September 22, 1926 Completed September 23, 1926 Unfinished	101 102 103		
Washington street	Washington street	Henry J. Malley	Reconst granite block	1,820	7,682	26,810.24 26,810.24 26,810.24	25,794.41 25,794.41 25,794.41	140.51					198.77 362.43 1,658.40	34.45 34.45 1,096.50	37.45 34.45 61.50	13.40 13.40 9.00															





# PUBLIC WORKS DEPARTMENT.

## HIGHWAY DIVISION—PAVING SERVICE—DETAIL OF WORK DONE BY CONTRACT AND CHARGED TO APPROPRIATION "PERMANENT STREET PAVEMENT."

STREET	From	To	Contractor	Pavement	Length Linear Feet.	Area, Square Yards.	Total Cost	Amount Paid to Contractor	MATERIALS.								EXPENSES.					WORK DONE.					Miscellaneous.	Progress.		
									EDGESTONE.		GRANITE BLOCK.		SIDEWALK BRICK.		MISCELLANEOUS.		Engineering.	Inspection.	Traveling, etc.	Advertising.	Miscellaneous.	Excavation and Filling.	Edgestone Set and Re-set.	Brick Slides walk, Load and Reload.	Roadway Paved and Repaved.	Artificial Stone Slides walk, Load.				
									Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.														Cubic Yards.
1. Duane St.	Washington St.	Frederick St.		Recent granite block	1,329	4,450	\$97.18										\$97.18												Work done in 1925	1
2. Duane St.	Washington St.	Frederick St.		Recent granite block			8.00										8.00												Work done in 1925	2
3. Duane St.	Washington St.	Frederick St.		Recent granite block			204.19										204.19												Work not done	3
4. Duane St.	Washington St.	Frederick St.		Recent granite block			251.07										251.07												Work done in 1925	4
5. Duane St.	Washington St.	Frederick St.		Recent granite block			157.79										157.79	\$14.70	\$9.90	\$8.25									Unfinished	5
6. Duane St.	Washington St.	Frederick St.		Recent granite block			8.00										8.00												Work done in 1925	6
7. Duane St.	Washington St.	Frederick St.		Recent granite block			49.50										49.50												Work done in 1925	7
8. Duane St.	Washington St.	Frederick St.		Recent granite block			3,997.20										3,997.20	69.04	1.20									Work done in 1925	8	
9. Duane St.	Washington St.	Frederick St.	John W. O'Connell	Recent granite block	1,842	8,249	15,451.34	12,500.72									359.32		11.30										Work done in 1925	9
10. Duane St.	Washington St.	Frederick St.	John W. O'Connell	Recent granite block	370	2,477	17,995.83	16,990.00									285.72	108.56	2.65	9.00		3,408	196	87	2,471	10,521		Completed June 14, 1926	10	
11. Duane St.	Washington St.	Frederick St.	John W. O'Connell	Recent granite block	1,119	5,190	16,631.74	15,521.12									112.62												Completed September 5, 1926	11
12. Duane St.	Washington St.	Frederick St.		Recent granite block			161.12										161.12												Work done in 1925	12
13. Duane St.	Washington St.	Frederick St.		Recent granite block			631.15										631.15												Work not done	13
14. Duane St.	Washington St.	Frederick St.		Recent granite block	3,712	17,876	19,064.39	9,420.46									644.13												Work not started	14
15. Duane St.	Washington St.	Frederick St.		Recent granite block			190.94										190.94												Work done in 1925	15
16. Duane St.	Washington St.	Frederick St.		Recent granite block	3,240	11,440	8,458.68	7,606.24	561.30																				Work done in 1925	16

<sup>1</sup> Paid Transit Department.

<sup>2</sup> Credit (old bricks) \$55.30.

<sup>3</sup> Gravel sidewalks.



## APPENDIX D.

REPORT OF THE DIVISION ENGINEER OF  
THE SEWER AND SANITARY DIVISION.

BOSTON, January 1, 1927.

MR. JAMES H. SULLIVAN,  
*Commissioner of Public Works:*

DEAR SIR,—I submit herewith a statement of the activities and expenditures of the various services of the Sewer and Sanitary Division for the year ending December 31, 1926.

The maintenance expenditures of the Sewer and Sanitary Division were as follows:

Sewer Service . . . . .	\$688,876 44
Sanitary Service . . . . .	3,095,461 84
	<hr/>
	<u>\$3,784,338 28</u>

## SEWER SERVICE.

During the fiscal year 1926 there were built throughout the city 14.58 miles of sanitary sewers and surface drains, making a total of 1,010.32 miles of common sewers and surface drains, which added to 30.93 miles of intercepting sewers, makes a grand total of 1,041.25 miles of common and intercepting sewers under the care of the Sewer Division on January 1, 1927.

Three hundred twenty six catch-basins were built or rebuilt during the year, making a total of 17,443 under the care of the Sewer Division on January 1, 1927. Ten thousand eight hundred forty-five (10,845) catch-basins and 158 drop inlets were cleaned out by contract, the total amount of material removed being 34,726.48 cubic yards.

The principal work built, together with the sewerage works recommended for the coming year, is as follows:

#### CITY PROPER.

Pipe sewers encased in concrete were constructed in Alley No. 554, Appleton street, Liberty square, Battery-march street and Parkman street, replacing old inadequate and broken down structures. The surface drains in a portion of Arlington street and Providence street, on account of their being badly cracked and settled, were also rebuilt and encased in concrete.

Sewerage works will be required in Faneuil Hall square, Dock square, Union street and Kneeland street, on account of street widenings. A new chamber and regulator should be built in Beacon street for the Brimmer street district. The Charter street overflow should be rebuilt and a sand catcher built on the east side intercepting sewer in Commercial street at North street.

#### ROXBURY.

On petition of the abutters sewerage works were built in Sunset street, Sunnyside street and Spring court, and the old sewers rebuilt in Dana street and Leon street. A portion of the surface drain in Pilgrim road was lowered to clear a subway to be constructed across Pilgrim road to connect the Deaconess Hospital buildings, the sewer changes being made by them at their expense.

Sewerage works should be constructed for the petitioners in Alley No. 931, which is between Boylston street and Peterborough street, Bowditch court, Cummington street and the Riverway from Deaconess road to Berners street.

#### SOUTH BOSTON.

Pipe sewers were built for the petitioners in East Seventh street and Marine road. A sand catcher is required on the intercepting sewer in East First street at I street.

#### EAST BOSTON AND CHARLESTOWN.

No important sewerage works were built in these districts, but minor improvements have been made in the present system.

In East Boston contracts have been awarded for

sewerage works in Lubec street, Webster street and Marginal street outlet. The Massachusetts Legislature, by chapter 259, of the Acts of 1926, has authorized the city to construct outlet sewers and overflows and a pumping station for the Porter street district at an estimated cost of \$650,000.

#### BRIGHTON.

Sewerage works were built in Wade street, Greylock road, Gordon street, Montcalm avenue, Antwerp street, Ascot street, Benson street, Cygnet street and Duval street, in advance of chapter "393" street construction and in North Crescent circuit, Morris street, Brayton road, North Harvard street, Dickinson road, Commonwealth avenue, Cambridge street and Royal road for the petitioners.

Sewerage works should be built in Bennett street, which has been ordered constructed under chapter "393" Acts of 1906, and for the petitioners in Colonial road and Lane park. To improve drainage conditions sewerage works should be constructed in Arthur street and for the easterly branch of Shepard brook in Everett street, between Adams street and Hichborn street.

#### WEST ROXBURY.

A section of the 17-foot by 13-foot 9-inch reinforced concrete Stony brook conduit is under construction in Brookstone street. The 3-foot 3-inch circular concrete conduit for Goldsmith brook has been built in Pond street, Rockwood street and private land for a distance of about 1,200 feet. In Addington road extension a sanitary sewer was constructed to provide an outlet for an area in the town of Brookline. About nine thousand five hundred (9,500) cubic yards of deposited material was removed from 6,800 linear feet of the open channel of the Canterbury branch of Stony brook, between its outlet at the main channel of Stony brook and Harvard street. Surface drains of various sizes were built in Corey and Pomfret streets for a distance of 2,100 linear feet. Sewerage works were built in Maple, Walworth and Montview streets in advance of street construction. In answer to petitions sewerage works were constructed in Hopkins road, St. Peter street, St. Joseph street, Rockwood street, Louder's lane, View South avenue, Pershing road and Williams street in the Jamaica Plain section; in Whipple avenue, Palfrey street, West Border

road, Hillside avenue, Clarendon avenue, Parkway avenue and West Roxbury Parkway in the Roslindale section; and in Weld street, Whiting street, Harwood street, Keith street, Baker street, Elmwood street, Pender street, Summer street, Willowdean avenue, Woodward road, Stratford street, Lasell street, Boxford terrace, Nut street, Riverview street, Alaric street and Realton road in the upper West Roxbury section.

Contracts have been awarded for sewerage works in Vermont street, Russett road, Pierpont road, La Grange street, Casper street, Varick road, Worley street, Beech street, private land, between Roslindale avenue and Metropolitan avenue, Pheasant street and Winton street outlet.

Séwerage works are required in Aldrich street, Eldredge road, Midvale road, Murray Hill road, Nikisch avenue, Rodman street, Roslindale avenue and Stellman road, which have been ordered constructed under chapter "393," Acts of 1906; in Ashland street, which was ordered widened under a special act of the Legislature; for the Arboretum Heights and Captain John's Hill developments, in Cedar street, Centre street, Cottage avenue, Dale street, Ferndale road, Hayes road, Little-dale street, Maynard street, private land off South street, Rossmore road, Summit road, Winslow street, Thurlow street, Wolf street, Burard street and Woodbrier road, for which petitions have been received. The Roslindale brook, Spring Street brook, Cowing street, with its outlet in Stony Brook Reservation and Washington street and an extension of the main line of the Stony brook should also be built.

#### DORCHESTER.

Sewerage works were built for the petitioners in Bismarck street, Codman street, Codman Hill avenue, Colorado street, Danube street, Duxbury road, Elm avenue, Wilcox road, Fuller street, Hosmer street, Menton street, Milton street, Milton avenue, extension Messinger street, Myrtlebank avenue, Mt. Bowdoin terrace, Ormand street outlet, Outlook road, Orlando street, Richard terrace and Rockdale street, in advance of street construction in Courtland road, Fessenden street, Hollingsworth street, Regina road, Verdun street, Westmore road, Hillsdale street and Oakland

street and under release to Cheverus road, Glide street, Flavia street, Mercer street, Hurlcroft street, Rosario street and Fairfax terrace.

Work has been started by the Transit Department on the sewer changes made necessary by the extension of the Dorchester Rapid Transit facilities along the line of the New York, New Haven & Hartford Railroad.

Sewerage works are proposed in Fossdale road, Greenmount street and Melville avenue, on account of their being ordered constructed under chapter "393" of the Acts of 1906; in Oakland street, Morton street, River street and the Southern Artery, which are ordered constructed under a special act of the Legislature; and in Chester street, Milton avenue, Violante street, Wilder road and the outlet for the Prendergast Tuberculosis Hospital Camp, on account of petitions and in Dorchester avenue, private land for Davenport brook and a new regulator and rebuilding of the overflow on the Dorchester intercepting sewer at Mt. Vernon street, to improve the general conditions of the sewer system.

#### HYDE PARK.

Sewerage works have been built for the petitioners in Moody street, Beacon street, Dedham street, Erie street, Foster street, Huntington avenue, Roanoke road, Ruskin road, Tyler street and Vose avenue; Sumner brook was built between the Neponset river and River street.

Sewerage works will be required in River street, which has been ordered constructed under a special act of the Legislature. Blake street, Business street, Barry street, River street, Perkins avenue, with its outlet in private land, Garfield avenue, Huntington avenue and Sunnyside street should be built in answer to petitions.

#### PUMPING STATION — CALF PASTURE.

Electric power equipment was installed for No. 1 and No. 2 pumps, new petroleum oil burners for No. 1 boiler and grout was placed under and around the new boiler foundations to stop settlement.

#### MOON ISLAND.

The fence with concrete posts was extended along the causeway for a distance of 640 linear feet, and considerable repairing was done to the roadways.

## SANITARY SERVICE.

The most critical time of the year for this service has always been the winter, when not only the extra work of snow removal has to be performed, but also the regular work of removing ashes, garbage and refuse under trying conditions. In former years the collection of material fell behind the schedule at each snow storm. During the heavy snow storms of the month of December of this year, however, this service with the additional sixty large 14 cubic yard trucks purchased by his Honor the Mayor not only collected all ashes, garbage and rubbish, but assisted to a great extent in the ploughing and removal of snow in the congested districts.

This service during the year accomplished a great amount of work and rendered a more extensive service than in any previous year, and with the additional equipment purchased this year this division will be in a most advantageous position to meet the demands of the public for regular collection of ashes, rubbish and garbage.

The shortage of available dumping facilities within economic haul is presenting an acute problem that is forcing the city to consider other means of disposal. This is especially true in the contract districts where the contractor not only collects ashes, rubbish, etc., but must also find a place to dispose of same without creating a nuisance.

## STREET CLEANING SERVICE.

By the increased use of motor pick-up sweepers very effective work was accomplished in cleaning the streets. The purchase of (4) additional Kinney Springfield type sweepers during the year, bringing the total up to (9) Springfield and (2) Elgin, has allowed of a more frequent cleaning of many of our suburban main streets.

With the installation of modern methods and modern equipment for snow removal, excellent work was accomplished in the cleaning of the streets after each storm in the last month of this year when the heaviest snow storms occurred.

The cleaning of streets has always been a very difficult problem in the past, and with the introduction of the motor vehicle for transportation like the parking question it has now become a real trouble. Our down town streets are now filled with automobiles parked next to



the curb until the midnight hours, and has added to the difficulty in thoroughly cleaning the streets. Streets cannot be cleaned in the day time because of traffic interruption, and therefore only a few hours between midnight and six o'clock in the morning are available for cleaning in our down town districts.

Sources from which most of our dirt collects on the streets are as follows: Excrement of animals, materials lost by passing vehicles, dirt swept from sidewalks and thrown from buildings into street, dirt from unpaved alleys, falling leaves, building construction, and the careless pedestrian who throws his newspaper, cigarette, cigar butts and gum wrappers on to the street.

Yours respectfully,

E. F. MURPHY,  
*Division Engineer, Sanitary Division.*

## SANITARY SERVICE.

### FINANCIAL STATEMENT.

Appropriation		\$3,129,825 53
Expended by Sanitary Service,	\$2,050,603 65	
Expended by Street Cleaning and		
Oiling Service . . . . .	1,044,858 19	
	<u>                    </u>	3,095,461 84
Transferred to City Treasury and other serv-		
ices . . . . .		<u>\$34,363 69</u>

### INCOME.

Statement showing the amount of bills and cash deposited with the City Collector from January 1, 1926, to December 31, 1926, and credited to General Revenue.

Tickets and bills for the removal of ashes and		
waste . . . . .		\$101,141 10
Sale of manure . . . . .		2,002 21
Rents . . . . .		788 62
Repairs on express wagon . . . . .		23 23
Miscellaneous . . . . .		38 00
		<u>                    </u>
Total . . . . .		<u>\$103,993 16</u>

### AMOUNT PAID INTO THE CITY TREASURY DURING THE YEAR.

Removal of ashes and waste . . . . .	\$101,141 10
Sale of manure . . . . .	1,803 99
Rents . . . . .	788 62
Junk . . . . .	70 00
Sign . . . . .	10 50
Miscellaneous . . . . .	131 00
	<u>                    </u>
Total . . . . .	<u>\$103,945 21</u>

### Total Cost of House Dirt, Waste, Rubbish and Offal, 1926.

Salaries, division engineer, supervisor, general		
foreman and medical inspector . . . . .	\$6,658 35	
Office supplies and expenses, printing, station-		
ery, etc. . . . .	3,169 01	
	<u>                    </u>	
Carried forward . . . . .		\$9,827 36

## PUBLIC WORKS DEPARTMENT.

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<i>Brought forward</i>		\$9,827 36
Ashes, waste and rubbish account		1,319,581 72
House offal account		604,038 19
Retired veterans' pensions	\$2,308 39	
Retired laborers' pensions	5,913 56	
	<hr/>	8,221 95
Total		<hr/> \$1,941,669 22

CONSTRUCTION REPAIRS AND HORSESHOEING  
ACCOUNT.

Expended for labor	\$92,986 63	
Expended for stock	37,379 55	
	<hr/>	130,366 18
		<hr/> \$2,072,035 40

## WORK DONE FOR OTHER SERVICES.

Paving Service	\$5,038 37	
Street Cleaning	13,077 16	
Water Service	3,316 22	
	<hr/>	21,431 75
Total		<hr/> <u>\$2,050,603 65</u>

## Items of Expenditures for the Year 1926.

Salary, division engineer (in part).....	\$2,500 00
Salary, supervisor (in part).....	1,750 00
Salary, medical inspector (in part).....	1,158 35
Salary, chief veterinary (in part).....	1,250 00
Salary, foreman.....	17,400 00
Salaries, yard clerks.....	2,721 56
Labor, collecting and disposing of house dirt and ashes.....	610,143 29
Labor, collecting and disposing of waste and rubbish.....	45,085 65
Labor, collecting and disposing of house offal.....	353,254 68
Labor and stock at stables and yards.....	94,072 09
Hired teams on ashes.....	127,426 60
Contractor on ashes, East Boston, Brighton, West Roxbury, Dorchester and Hyde Park.....	282,436 00
Contractor on offal, East Boston, Brighton, West Roxbury, Dorchester and Hyde Park.....	123,200 00
Holidays, pay allowed.....	111,649 90
Vacations, pay allowed.....	29,409 76
Grain.....	19,224 41
Hay and straw.....	27,481 46
Medical attendance and pay allowed injured employees.....	15,036 38
Veterinary services and medicines.....	262 46
Horses, draught.....	1,400 00
Outside wheelwright, blacksmith, horseshoeing, etc.....	15,839 09
Labor, stock and wheelwright, blacksmith, painting, etc.....	107,265 88
Repairs to stables and sheds.....	10,044 39
Fuel.....	3,739 94
Gas.....	661 88
Electric light and power.....	3,212 92
Printing, stationery, office supplies, etc.....	3,168 76
Automobile expense.....	28,995 55
Retired veterans' pensions.....	2,308 39
Retired laborers' pensions.....	59,113 56
Rent.....	1,822 50
Telephone tolls and rentals.....	768 20
Total.....	\$2,050,603 65

Amount Expended for the Collection and Disposal of Ashes, Garbage, Waste and Rubbish, by District, 1926.

Districts.	Popula- tion.	ASHES.		GARBAGE.		WASTE AND RUBBISH.		Total Cost.	Total Cost Per Capita.
		Cost.	Per Capita.	Cost.	Per Capita.	Cost.	Per Capita.		
1. South Boston.....	72,411	\$84,670 61	\$1.1693	\$34,645 43	\$0.5475	\$508 00	\$0.0070	\$119,824 04	\$1.7238
2. East Boston.....	67,695	45,386 13	0.6706	10,245 41	0.8218	.....	.....	55,631 54	0.8219
3. Charlestown.....	39,133	63,368 46	1.6193	13,035 98	0.3331	.....	.....	76,404 44	1.9524
4. Brighton.....	49,833	50,954 58	1.0225	26,354 54	0.5288	.....	.....	77,309 12	1.5513
5. West Roxbury.....	60,541	53,146 71	0.8778	32,449 84	0.5360	.....	.....	85,596 55	1.4138
6. Dorchester.....	160,870	175,167 34	1.0888	87,973 63	0.6090	.....	.....	263,140 97	1.6978
7. Roxbury.....	127,947	189,592 66	1.4818	95,605 18	0.7472	11,897 60	0.0930	297,095 44	2.3220
8 and 9. South End and Back Bay..	117,002	252,362 82	2.1568	87,410 41	0.7462	44,799 18	0.3820	384,572 41	3.2850
10. North and West Ends.....	74,258	138,506 08	1.8652	34,138 29	0.4597	11,638 70	0.1521	184,283 07	2.4770
11. Hyde Park.....	20,450	11,332 48	0.5541	4,432 49	0.2167	.....	.....	15,764 97	0.7708
12. Disposal station.....	.....	179,974 99	.....	177,746 99	.....	3,966 99	.....	361,688 97	.....
Totals.....	790,140	\$1,244,462 86	.....	\$604,038 19	.....	\$72,810 47	.....	\$1,921,311 52	.....

## House Dirt and Ashes Removed.

YEARS.	LOADS.	Cubic Yards.	Tons.
1922 *.....	272,245	1,025,555	417,915
1923 *.....	280,448	1,065,625	434,234
1924 *.....	276,818	1,099,636	448,094
1925 †.....	239,840	984,287	401,087
1926.....	232,670	1,035,160	421,828

## House Offal Removed.

YEARS.	Loads.	Cubic Yards.	Tons.
1922 *.....	44,860	110,555	71,175
1923 *.....	50,115	127,052	74,962
1924 *.....	50,584	142,822	84,264
1925 †.....	46,093	137,597	81,176
1926.....	48,738	161,551	95,315

## Waste and Rubbish Removed.

YEARS.	LOADS.		Cubic Yards.	Tons.
	Paper Carts.	Market Wagons.		
1922 *.....	2,850	4,055	54,071	6,455
1923 *.....	1,924	4,589	53,409	6,394
1924 *.....	1,901	4,601	53,443	6,390
1925 †.....	1,772	4,192	47,712	5,851
1926.....	1,783	4,438	49,768	6,131

## Loads of Material Collected.

YEARS.	Ashes.	Offal.	Rubbish.	Total Loads.	Tons.
1922 *.....	272,245	44,860	6,905	324,010	495,545
1923 *.....	280,448	50,115	6,513	337,076	515,590
1924 *.....	276,818	50,584	6,502	333,904	538,748
1925 †.....	239,840	46,093	5,964	291,897	488,114
1926.....	232,670	48,738	6,221	287,629	523,274

\* During the years 1922 to 1924 inclusive the financial year was from February 1 to January 31 of next year.

† 11 months.

## Collected by Contract.

Districts.	ASHES.					OFFAL.				
	Double Loads.	Auto Loads.	Cubic Yards.	Tons.	Single Loads.	Double Loads.	Auto Loads.	Cubic Yards.	Tons.	
East Boston.....	10,331	1,523	69,885	28,478	.....	1,124	13	4,061	2,398	
Brighton.....	.....	5,453	51,530	22,221	.....	2,436	1,232	20,846	12,299	
West Roxbury.....	2,314	3,863	50,200	20,457	.....	44	1,020	10,354	6,109	
Dorchester.....	30,964	6,996	224,780	91,398	1,202	5,856	18	23,080	13,617	
Hyde Park.....	3,303	64	17,155	6,991	.....	723	.....	2,892	1,706	
Totals.....	47,512	17,899	416,550	169,745	1,202	10,183	2,283	61,236	36,129	

## Summary.

MATERIALS.	Cubic Yards.	Tons.
Ashes.....	416,550	169,745
Offal.....	61,236	36,129

**Final Disposition of all Material in Loads and Tons (2,000 Pounds). Collected by the Sanitary Service January 1 to December 31, 1926.**

CLASS OF REFUSE.	COLEMAN DISPOSAL COMPANY.		COLLECTED AND DISPOSED OF BY CONTRACTORS.		Total Loads.	Total Tons.
	Loads.	Tons.	Loads.	Tons.		
House dirt and ashes.....	167,259	252,086	65,411	169,742	232,670	421,828
Offal.....	42,190	72,803	6,548	22,512	48,738	95,315
Waste and rubbish.....	6,221	6,131	.....	.....	6,221	6,131
Total.....	215,670	331,020	71,959	192,254	287,629	523,274



**Cost of Collection and Disposal of Refuse by Day Labor Force in the City of Boston for the Year Ending December 31, 1925.**

Districts and Population	CHARACTER OF REFUSE	COST PER TON BY DISTRICTS.					COST OF DISTRICTS.						WHERE DISPOSED OF.
		Tons (2,000 lbs.)	Total Tons.	To Collect.	For Disposal.	Total Collection and Disposal.	To Collect.	Total Cost to Collect.	For Disposal.	Total Cost of Disposal.	Total Cost of Collection and Disposal.	Total Cost per Capita. Collection and Disposal.	
1 (72,411)	Mixed refuse, principally ashes (no kitchen wastes)	25,152		\$2 9135	\$0 0941	\$3 0076	\$82,020 61		\$2,650 00				Coleman Disposal Company.
	Garbage, principally kitchen wastes	5,247		6 6029		6 6029	34,645 43						Coleman Disposal Company.
	Store refuse, principally paper.	78		6 5128		6 5128	508 00						Coleman Disposal Company.
			33,477	Av. \$3 5001	Av. \$0 0941	Av. \$3 5942		\$117,174 04		\$2,650 00	\$119,824 04	\$1 7238	
3 (39,133)	Mixed refuse, principally ashes (no kitchen wastes)	21,760		\$2 4362	\$0 4751	\$2 9113	\$53,027 86		\$10,340 60				Coleman Disposal Company.
	Garbage, principally kitchen wastes	1,865		6 9898		6 9898	13,035 98						Coleman Disposal Company.
			23,631	Av. \$2 7533	Av. \$0 4751	Av. \$3 2284		66,063 84		10,340 60	76,404 44	1 9524	
				Av. \$2 7533	Av. \$0 4751	Av. \$3 2284							
5 (part) and 7 (154,798)	Mixed refuse, principally ashes (no kitchen wastes)	78,146		\$3 5943	\$0 0264	\$3 6207	\$280,883 28		\$2,064 25				Coleman Disposal Company.
	Garbage, principally kitchen wastes	28,461		3 7105		3 7105	105,605 18						Coleman Disposal Company.
	Store refuse, principally paper	1,020		11 6643		11 6643	11,897 60						Coleman Disposal Company.
			107,627	Av. \$3 7015	Av. \$0 0264	Av. \$3 7279		398,386 06		2,064 25	400,450 31	2 5729	
8 and 9 (117,002)	Mixed refuse, principally ashes (no kitchen wastes)	73,304		\$3 9575	\$0 0345	\$4 6619	\$290,096 48		\$2,532 00				Coleman Disposal Company.
	Garbage, principally kitchen wastes	16,307		5 9735	0 1724	6 1450	97,410 41		2,811 50				Coleman Disposal Company.
	Store refuse, principally paper	3,511		11 7552		11 7552	44,799 18						Coleman Disposal Company.
			93,422	Av. \$4 6274	Av. \$0 0572	Av. \$4 6846		432,306 07		5,343 50	437,649 57	3 7405	
10 (74,258)	Mixed refuse, principally ashes (no kitchen wastes)	50,715		\$2 9282		\$2 9282	\$148,506 08						Coleman Disposal Company.
	Garbage, principally kitchen wastes	7,306		4 6720		4 6720	34,138 29						Coleman Disposal Company.
	Store refuse, principally paper	1,222		9 5243		9 5243	11,638 70						Coleman Disposal Company.
			59,243	Av. \$3 2794		Av. \$3 2794		194,283 07			194,283 07	2 6163	
	Coleman Disposal Company									345,000 00	345,000 00		
451,602	Totals		317,400	Av. \$3 8696	Av. \$1 1512	Av. \$5 0208		\$1,208,213 08		\$365,398 35	\$1,573,611 43	\$3 4845	

\* The amount paid to Coleman Disposal Company is for disposal of all refuse collected by the city force and Dorchester contracts.  
District 6 on page 168.

Total as above	\$1,573,611 43
Add total of contract table, page 127	476,992 22
Net amount of appropriation	<u>\$2,050,603 65</u>

Coleman Disposal Company's contract calls for \$345,000 per year.



Details of Collected Refuse in Boston for the Year Ending December 31, 1926.

District	Population	Area	ASHES										GARBAGE																	WASTE AND RUBBISH										COMBINED TOTALS OF ASHES, GARBAGE, WASTE AND RUBBISH.									
			CITY					COMBINED TOTALS					AVERAGE WEIGHT PER CUBIC YARD				TOTAL WEIGHTS			GRAND TOTALS	CARTS				TOTALS		COMBINED TOTALS		AVERAGE WEIGHT PER CUBIC YARD		TOTAL WEIGHTS			GRAND TOTALS	CARTS			WAGONS				COMBINED TOTALS							
			NUMBER OF LOADS					AVERAGE CAPACITY					CITY				COMBINED TOTALS					NUMBER OF LOADS			AVERAGE WEIGHT		TOTALS		AVERAGE WEIGHT		TOTALS				NUMBER OF LOADS			AVERAGE WEIGHT				TOTALS		COMBINED TOTALS					
			CUBIC YARDS					CUBIC YARDS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS											
			SINGLE					SINGLE					SINGLE				SINGLE					SINGLE			SINGLE		SINGLE		SINGLE		SINGLE		SINGLE		SINGLE		SINGLE					AVERAGE WEIGHT		TOTALS					
			Tons					Tons					Tons				Tons					Tons			Tons		Tons		Tons		Tons		Tons		Tons			Tons				Tons		TOTALS					
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
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CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMBINED TOTALS					CARTS			CARTS		WAGONS		CARTS		WAGONS		CARTS		WAGONS			COMBINED TOTALS														
CITY					COMBINED TOTALS					CITY				COMB																																			



## Cost of Collections and Disposal of Refuse by Contract in the City of Boston for the Year 1926.

Contract Districts and Population.	CHARACTER OF REFUSE.	Tons. (2,000 lbs.)	Total Tons.	Cost per Ton by Districts, Collection and Disposal.	COST PER DISTRICTS.			Where Disposed of
					Cost.	Total Cost.	Total Cost per Capita.	
2.. (67,695).....	{Mixed refuse, principally ashes (no kitchen wastes).....	28,478		\$1.5937	\$45,386 13			Inland dumps.
	{Garbage, principally kitchen wastes.....	2,398	30,876	4.2725	10,245 41	\$55,631 54	\$0.8219	*
				Av. \$1.8017				
4.. (49,833).....	{Mixed refuse, principally ashes (no kitchen wastes).....	22,221		\$2.2931	\$50,954 58			Inland dumps.
	{Garbage, principally kitchen wastes.....	12,299	34,520	2.1428	26,354 54	77,309 12	1.5513	*
				Av. \$2.2395				
5.. (33,690).....	{Mixed refuse, principally ashes (no kitchen wastes).....	20,457		\$1.3042	\$26,681 10			Inland dumps.
	{Garbage, principally kitchen wastes.....	6,109	26,566	2.8604	17,474 52	44,155 62	1.3106	*
				Av. \$1.6621				
6.. (100,870).....	{Mixed refuse, principally ashes (no kitchen wastes).....	91,598		\$1.9773	\$180,167 34			Coleman Disposal Co.†
	{Garbage, principally kitchen wastes.....	13,617	105,215	7.6548	103,963 63	284,130 97	1.6978	
				Av. \$2.7004				
11.. Hyde Park, (20,456).....	{Mixed refuse, principally ashes (no kitchen wastes).....	6,991		\$1.6210	\$11,332 48		0.7708	Inland dumps.
	{Garbage, principally kitchen wastes.....	1,706	8,697	2.5981	4,432 49	15,764 97		*
				Av. \$1.8127				
338,538	Totals.....		205,874			\$476,992 22	\$1.4089	

\* Removed beyond city limits and presumably fed to swine.

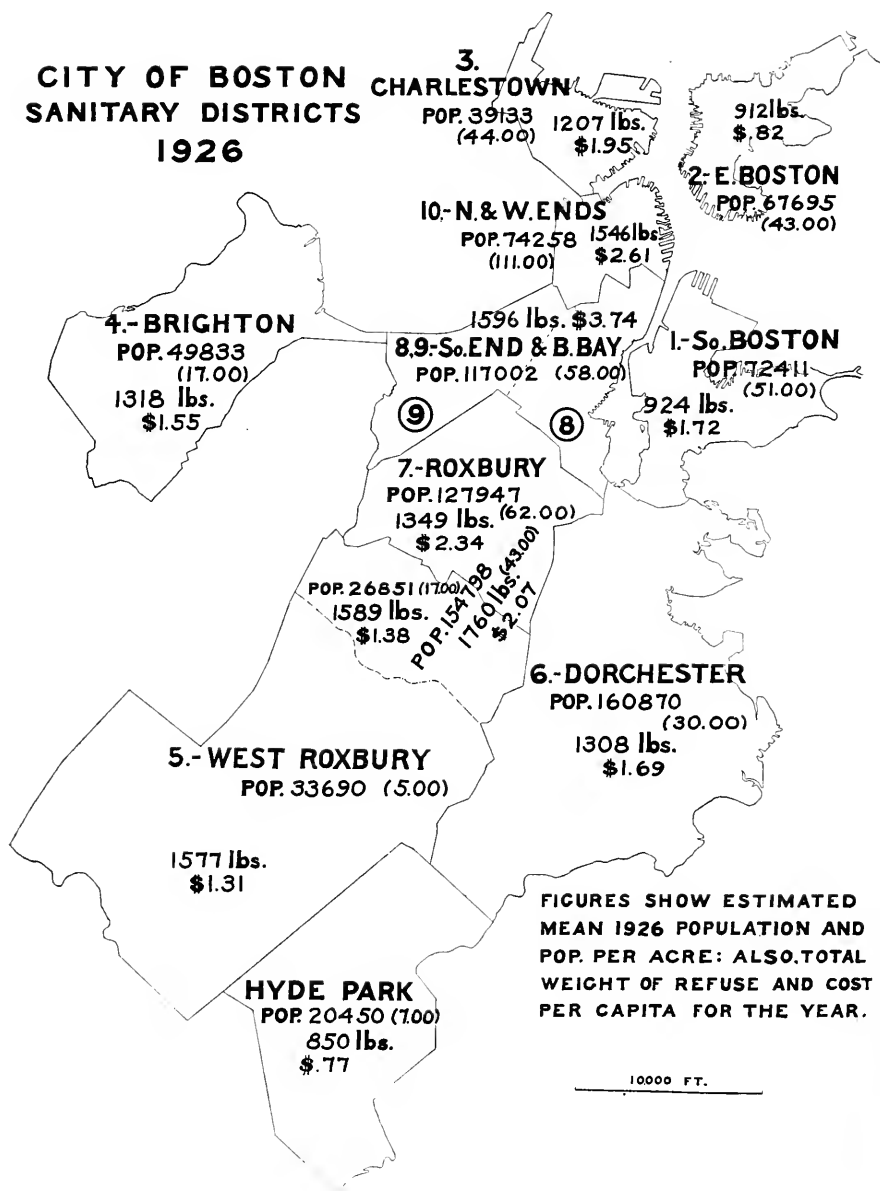
† Contract for disposal.

Total as above..... \$476,992 22

Add total of day labor table (between pages 126 and 127)..... 1,573,611 43

Net amount of appropriation..... \$2,050,603 65

# **CITY OF BOSTON SANITARY DISTRICTS 1926**



SEWER AND SANITARY DIVISION — STREET  
CLEANING SERVICE.

## General administration:

Salary, division engineer (in part)	\$1,781 00
Salary, deputy supervisor	3,500 00
Pensions, retired veterans	3,048 70
Pensions, retired laborers	6,696 14
Annuity, Acts of 1920 — chapter 132	600 00
Salary, medical inspectors (in part)	841 67
Salary, chief veterinarian (in part)	1,000 00
Telephone	755 81
Printing and stationery	1,029 09
Injured employees	3,848 88
Advertising	9 50
Miscellaneous	119 00
Salary — chauffeur — division engineer	815 63
Auto repairs and maintenance	886 94

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\$24,932 36

## General expenses other than general administration:

Wages, stablemen	\$45,223 59
Wages, yardmen	9,998 08
Wages, watchmen	6,521 50
Wages, clerks	5,493 50
Hay, grain and straw	34,013 33
Light	1,128 27
Veterinary service and medicine,	350 33
Horseshoeing	1,973 50
Harnesses, etc.	756 90
Fuel	538 40
Miscellaneous	220 97
Stable and yards, rent of	150 00
Stable and yards, supplies	1,256 73
Stable and yards, building repairs	402 06
Horses — new	2,425 00
Dump R. & M.	56 00
Auto repairs and maintenance,	6,256 66

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116,764 82

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*Carried forward* . . . . . \$141,697 18

<i>Brought forward</i>		\$141,697 18
Operating expenses:		
Salaries, district foremen	\$20,954 24	
Salaries, inspectors	44,922 14	
Wages, laborers	561,575 95	
Holidays and pay allowed	32,869 00	
Vacations	20,826 86	
Shops, labor for repairs	23,532 51	
Dumps, use of	626 50	
Veterinary hospital	889 50	
Snow license	500 00	
Cart repairs	2,974 36	
Tool and repairs	514 24	
Vehicle supplies	112 78	
Sweeping machine repairs	97 56	
Push carts and barrels	1,281 60	
Push brooms, teamster brooms, etc.	1,316 00	
Machine brooms	2,928 00	
Sand	1,102 50	
Water cart hose	106 72	
Shovels, hoes and picks, etc.	2,473 00	
Hired autos	62,749 60	
Hired teaming	57 50	
Miscellaneous	438 73	
Sand barrels, etc.	168 00	
Lunches, snow removal	4,647 65	
Hire of horses	240 00	
Shops, stock for repairs	11,097 04	
Autos, repairs and maintenance,	52,700 15	
		<u>851,702 13</u>
Total		<u><u>\$993,399 31</u></u>

## STREET WATERING AND OILING BRANCH.

## General administration:

Salary, division engineer (in part)	\$94 00	
Printing and stationery	95 00	
Telephone	48 07	
Miscellaneous	5 10	
Auto repairs and maintenance,	1,505 00	
		<u>\$1,747 17</u>

## General expense other than general administration:

Wages of stablemen	\$786 50	
Horseshoeing	248 00	
Hay and grain	502 95	
		<u>\$1,537 45</u>
<i>Carried forward</i>		<u>\$1,747 17</u>



<i>Brought forward</i> . . . . .	\$1,537 45	\$1,747 17
Miscellaneous . . . . .	108 32	
Shops, stock for repairs . . . . .	126 97	
Auto repairs and maintenance, . . . . .	1,014 03	
	<hr/>	2,786 77
Operating expenses:		
Road oil . . . . .		20,914 73
Sand . . . . .		6,386 44
Standpipes, hydrant repairs . . . . .		112 15
Tools . . . . .		34 75
Push brooms . . . . .		150 00
Cart repairs . . . . .		224 42
Teaming . . . . .		395 00
Miscellaneous . . . . .		19 50
Inspection:		
General foreman . . . . .		2,000 00
Oil . . . . .		2,190 92
Water . . . . .		194 79
Calcide . . . . .		20 54
Sanding . . . . .		826 67
Building repairs . . . . .		88 79
Labor:		
Oil . . . . .		1,532 33
Water . . . . .		661 30
Sanding . . . . .		6,291 54
Calcide . . . . .		81 00
Standpipe and hydrants . . . . .		512 50
Vacation . . . . .		735 09
Holiday . . . . .		589 23
Yard and building repairs . . . . .		2,963 25
		<hr/>
		\$51,458 88
Street cleaning expenditures . . . . .	\$993,399 31	
Street watering and oiling ex- penditures . . . . .	51,458 88	
	<hr/>	
	\$1,044,858 19	
	<hr/>	

## DISTRIBUTION OF EXPENDITURES.

Removing snow . . . . .	\$286,769 45	
Snow work on crossings and gutters . . . . .	9,795 76	\$296,565 21
Flushing streets . . . . .	\$72,673 15	
Street patrolling by teams . . . . .	52,468 34	
Street patrolling by push carts . . . . .	158,188 78	
Refuse box collections . . . . .	24,792 00	
Cleaning of paved streets . . . . .	244,631 11	
Cleaning of macadam streets . . . . .	66,932 33	
Cleaning of streets by Elgin and Springfield sweepers . . . . .	70,004 34	
Sanding of slippery streets . . . . .	7,114 05	696,834 10
Total . . . . .		\$993,399 31
Oiling of public streets and ways . . . . .		48,495 98
Watering public streets and ways . . . . .		2,962 90
Total . . . . .		<u>\$1,044,858 19</u>

## Summary.

ITEMS.	STREET CLEANING BRANCH.			STREET WATERING AND OILING BRANCH.		
	1924-25.	1925.	1926.	1924-25.	1925.	1926.
Labor. . . . .	\$685,772 62	\$582,879 49	\$794,049 39	\$27,454 38	\$17,860 00	\$19,568 45
Teaming. . . . .	14,246 50	27,366 90	62,807 10	16,153 75	5,176 50	395 00
Supplies and repairs. . . . .	141,689 31	127,502 64	136,542 82	35,868 77	30,384 38	31,495 43
Totals. . . . .	\$841,708 43	\$737,749 03	\$993,399 31	\$79,476 90	\$53,420 88	\$51,458 88

Cleaning of Paved Streets and Macadam Gutters, 1926.

District	PAVED STREETS		MACADAM GUTTERS		TOTAL PAVED STREETS AND MACADAM GUTTERS	PAVED STREETS AND MACADAM GUTTERS				LOADS OF DIRT REMOVED						CUBIC YARDS OF DIRT REMOVED								
	Square Yards Cleaned Once	Equivalent Mileage of Roadway Cleaned Once	Square Yards Cleaned Once	Linear Miles Cleaned Once		Inspection, Labor	All Other Charges	Total Cost	Cost per Thousand Square Yards Cleaned Once	PAVED STREETS		MACADAM GUTTERS		PAVED STREETS AND MACADAM GUTTERS		PAVED STREETS			MACADAM GUTTERS			PAVED STREETS AND MACADAM GUTTERS		
										Loads	Cost per Load	Loads	Cost per Load	Loads	Cost per Load	Total Cubic Yards	Per Thousand Square Yards	Cost per Cubic Yard Removed	Total Cubic Yards	Per Thousand Square Yards	Cost per Cubic Yard Removed	Total Cubic Yards	Per Thousand Square Yards	Cost per Cubic Yard Removed
South Boston	7,751,984	440.43	1,188,618	281.66	9,230,292	\$20,375.61	\$8,353.95	\$28,909.59	\$3.128	2,015	\$6.975	1,665	\$9.944	1,050	\$7.085	6,630	777	\$4.038	2,130	1.45	\$4.957	8,160	883	\$3.54
East Boston	6,391,431	357.46	5,162,157	208.90	9,553,788	25,951.08	5,089.59	31,040.61	\$3.249	1,811	7.375	2,194	8.018	1,008	7.713	3,628	567	3.688	1,358	1.387	1.024	5,016	839	3.57
Charlestown	9,666,554	549.26	1,115,286	268.04	11,081,820	11,798.71	3,492.52	14,151.56	\$1.401	1,436	8.531	249	12.005	1,588	9.30	2,678	277	4.272	498	5.31	6.047	3,176	286	4.55
Dorchester	10,803,892	602.49	3,009,669	698.97	14,294,561	23,713.25	1,976.76	28,710.01	\$2.008	2,012	7.11	2,421	7.086	5,433	5.254	6,924	567	2.723	1,842	1.312	2.543	10,866	760	2.64
Roxbury	6,173,790	350.78	1,138,400	210.41	7,332,290	10,680.59	1,580.86	12,261.49	\$1.672	1,216	9.978	591	5.096	2,267	5.555	2,432	395	2.989	1,982	1.710	2.777	4,414	601	2.77
Uptown and Back Bay	26,465,244	1,593.59	7,662,989	1,778.21	32,156,233	39,384.55	7,779.03	47,163.58	\$1.466	3,648	6.137	1,573	11.976	4,621	10.266	6,096	280	4.728	1,146	552	5.538	9,242	287	6.103
Downtown	85,431,415	1,854.05			85,431,315	48,713.69	15,907.98	64,620.98	756	6,601	9.789			6,601	9.789	13,292	154	1.805				13,202	154	4.895
North and West Ends	71,034,594	4,306.51			71,034,594	67,792.42	17,313.43	84,105.75	\$1.190	10,127	8.329			10,127	8.329	20,274	273	4.163				20,274	273	4.163
Totals	226,516,184	12,864.54	16,609,669	3,315.49	213,124,843	\$37,139.24	\$61,371.20	\$111,563.44		39,182		8,493		38,679		60,364			16,956			77,350		
Average									\$1.281		\$8.193		\$7.88		\$8.059		266	\$4.052		1.022	\$3.94		381	\$4.027



Macadam Streets Oiled—Cost of Labor, Teaming, Oil, etc., Including Supervision.

DISTRICTS.	Area Oiled Once, Square Yards.	Equivalent Mileage, 30-Foot Roadway.	DATES OF OILING.		Total Cost.	Cost per Square Yard Covered Once.	Gallons Used.	Gallons per Square Yards.
			First.	Last.				
South Boston.....	282,361	16.043	June 18	Sept. 10	\$5,581 17	\$0.0197	33,145	.1173
Charlestown.....	85,980	4.885	June 24	Aug. 25	2,143 88	.0249	12,564	.1461
Brighton.....	174,189	9.897	June 11	Nov. 13	3,686 84	.0211	23,832	.1368
West Roxbury.....	219,654	12.48	June 22	Nov. 8	4,774 80	.0217	30,415	.1384
Dorchester.....	776,987	44.147	June 22	Sept. 2	13,575 95	.0176	89,482	.1151
Roxbury.....	441,620	25.092	June 10	Sept. 14	10,066 74	.0227	67,962	.1538
South End.....	198,592	11.277	June 27	Sept. 20	5,503 96	.0277	32,352	.1629
Hyde Park.....	145,411	8.262	Aug. 9	Nov. 16	3,131 04	.0215	20,230	.1391
Totals.....	2,324,794	132.083	.....	.....	\$48,495 98	.....	309,982	.....
Average.....	.....	.....	.....	.....	\$0.0208	.....	.....	.1333

## SEWER SERVICE.

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The work of the Sewer Service carried on under chapters 27 and 39, Revised Ordinances of 1925, and the following statutes:

Chapter 426, 1897, as amended by 450, 1899, and 268, 1903.

Chapter 383, 1903, as amended by 464, 1907.

Chapter 550, 1907.

Chapter 204, 1908.

Chapter 514, 1908.

Chapter 74, Special Acts of 1908.

### THE DUTIES OF THE SEWER SERVICE.

1. Preparation of plans for sewerage works.
2. Construction and maintenance of all sewerage works.
3. Investigation of complaints in regard to defective drainage.
4. The granting of permits for sewer construction.
5. The preparation of plans for the assessment of the cost of sewer construction.
6. The examination of the plans of other corporations proposing to construct works in the public streets with reference to their probable interference with sewerage works.

Total number of permanent employees on pay roll December 31, 1925 . . . . .	341
Total number of permanent employees on pay roll December 31, 1926 . . . . .	327
Total amount of weekly pay roll for week ending December 31, 1925 . . . . .	\$12,189 17
Total amount of weekly pay roll for week ending December 31, 1926 . . . . .	\$12,674 35
Total amount of monthly pay roll December 31, 1925 . . . . .	\$366 67
Total amount of monthly pay roll December 31, 1926 . . . . .	\$375 02
* Total amount of monthly pension roll December 31, 1925:	
Veterans . . . . .	\$235 88
Laborers . . . . .	\$210 76

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\* Chapter 32, General Laws (veterans), chapter 413, Acts of 1911, and amendments thereto (laborers).

Total amount of monthly pension roll December ber 31, 1926:	
Veterans . . . . .	\$235 87
Laborers . . . . .	\$180 38
Average weekly pay roll, including monthly roll and exclusive of pension rolls for fiscal year charged as:	
Maintenance . . . . .	\$8,295 48
Construction . . . . .	\$3,964 55
Average number of permanent men employed . . . . .	335
Number of men on pension roll December 31, 1925:	
Veterans . . . . .	4
Laborers . . . . .	7
Number of men on pension roll December 31, 1926:	
Veterans . . . . .	4
Laborers . . . . .	6
Rate of wages paid common laborers . . . . .	\$5 00

Two thousand eight hundred and sixty-one (2,861) permits have been issued as follows: 271 to district foremen; 208 to contractors for new construction work; 2,382 to drain layers for repairing or laying new house drains.

Entrance fees to the amount of \$12,745.24 have been deposited with the City Collector for collections from estates upon which no sewer assessment was ever paid, in accordance with the City Ordinances of 1910, chapter 9, section 10.

Nine hundred sixty-two (962) complaints on floodings and other causes have been investigated and reported on; also the gasoline traps in five hundred thirty-nine (539) garages have been inspected.

Plans for the assessment of estates, on account of sewer construction, have been furnished the Board of Street Commissioners, representing 31,986.34 linear feet of sewers and appurtenances, costing \$269,396.02.

Seven hundred eighty (780) notices have been mailed to abutters in conformity with an extract from the Revised Ordinances, which says, "that all abutters shall be notified when the Commissioner of Public Works proposes to build a new sewer or repair an old sewer to afford abutters facilities for entering the sewer."

Reported to the City Collector on four thousand three hundred one (4,301) municipal liens in accordance with chapter 60, section 23 of the General Laws; in addition there were 7,500 reported on orally to persons making requests at the sewer office.

## Financial Statement from January 1, 1926, to December 31, 1926.

OBJECT.	Balances on Hand Jan. 1, 1926.	Appropriations, Loans and Revenue.	Transfers to.	Transfers from.	Total Credits.	Expenditures During the Year 1926.	Balances on Hand Dec. 31, 1926.
Snow Service.....	.....	\$712,784 62	.....	\$5,235 00	\$707,549 62	\$688,876 44	\$18,673 18
Sewerage Works.....	\$299,938 25	1,004,628 08	.....	.....	1,304,566 33	964,684 15	339,882 18
Sewerage works, Charles River Basin.....	516 70	.....	.....	.....	516 70	.....	516 70
East Boston Pumping Station and Outlet.....	.....	715,000 00	.....	.....	715,000 00	1,796 58	713,203 42
Totals.....	\$300,454 95	\$2,432,412 70	.....	\$5,235 00	\$2,727,632 65	\$1,655,357 17	\$1,072,275 48



# MAINTENANCE EXPENDITURES JANUARY 1, 1926, TO DECEMBER 31, 1926.

## SEWER SERVICE.

*Improved Sewerage.*

Pumping Station, Calf Pasture, inside . . . . .	\$138,836 19	
Pumping Station, Calf Pasture, outside . . . . .	30,112 95	
Pumping Station, Calf Pasture, engines . . . . .	46,477 96	
Pumping Station, Calf Pasture, boilers . . . . .	24,754 15	
Pumping Station, Union Park street . . . . .	8,245 79	
Pumping Station, Summer street . . . . .	1,407 10	
Pumping Station, Hyde Park . . . . .	1,080 42	
		\$250,914 56
Moon Island . . . . .		25,931 24
Main and intersecting sewers . . . . .		15,578 42
		<u>\$292,424 22</u>

*Stony Brook.*

Maintenance . . . . .	2,332 40
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*Miscellaneous Maintenance Charges.*

Cleaning catch-basins . . . . .	100,261 08
Yards and lockers . . . . .	1,182 16
Employed at yards . . . . .	41,811 15
Automobiles . . . . .	\$34,580 27
Horses, carts, harnesses, etc. . . . .	1,243 13
Teaming . . . . .	7,297 21

\$43,120 61

Less amount earned by service teams and auto trucks . . . . .	17,416 34
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Cleaning sewers . . . . .	25,704 27
Office salaries . . . . .	68,752 59
Office expense . . . . .	15,327 99
Repairing department buildings . . . . .	2,162 58
Repairing catch-basins, South Boston . . . . .	\$741 77
Repairing catch-basins, East Boston . . . . .	2,157 00
Repairing catch-basins, Charlestown . . . . .	1,581 61
Repairing catch-basins, Brighton . . . . .	859 10
Repairing catch-basins, West Roxbury . . . . .	958 38
Repairing catch-basins, Dorchester . . . . .	1,851 74
Repairing catch-basins, Hyde Park . . . . .	4,058 45
Repairing catch-basins, Roxbury . . . . .	550 02
Repairing catch-basins, city proper . . . . .	5,124 34
Repairing sewers, South Boston . . . . .	5,849 71
Repairing sewers, East Boston . . . . .	1,004 50
Repairing sewers, Charlestown . . . . .	1,385 89
Repairing sewers, Brighton . . . . .	611 25
Repairing sewers, West Roxbury . . . . .	857 28
Repairing sewers, Dorchester . . . . .	4,570 12
Repairing sewers, Hyde Park . . . . .	4,051 90
Repairing sewers, Roxbury . . . . .	954 55
Repairing sewers, city proper . . . . .	1,442 17
	4,022 98
	<u>42,632 76</u>

*Carried forward* . . . . . \$592,591 20

<i>Brought forward</i>	\$592,591 20
Pension roll (veterans)	2,764 98
Pension roll (laborers)	2,201 64
Annuities	351 00
Fuel and oil	2,324 77
Hardware, tools, etc.	4,104 05
Engines and boilers	111 58
Sundries and miscellaneous charges	58,892 76
Telephones	463 35
House connections	13,494 06
Rubber goods	696 43
Gatehouses, Fenway	4,239 80
Stock	15,159 22
	<hr/>
	\$697,394 84

*Credit.*

Stock transferred and used in connection	\$7,701 00	
Fuel and oil transferred and used in connection	187 40	
	<hr/>	8,518 40
		<hr/>
		\$688,876 44

*Charges to Various Parties for Work Done and Material Furnished.*

Board of Health	* \$84 26
Henry Giller	13 25
Browning & Riley	13 00
John Cunio	13 00
Kennedy Engineering Company	* 10 25
E. B. Roach	13 23
Hub Laundry Company	13 00
William B. Cooper	80 00
A. Cefalo	* 104 11
James P. Markin	13 25
Jenny Oil Company	8 99
Bruno R. Gunther	6 63
John J. Quinn	56 90
John Clancy	3 80
William F. Condon	* 89 60
Casey & D'Arcy Company	* 10 00
Fenway Garage	13 00
Rosie Kistel	15 00
H. Cohen	8 99
Burnett & Sherman, Inc.	5 63
Metropolitan Water and Sewerage Board	10,300 00
John G. McLean	13 25
H. Cohen	32 53
F. E. Carlson	13 25
Harry J. Harrington, attorney	13 00
Water Service	22 00
Boston Elevated Railway Company	* 21 50
Boston City Hospital	* 68 60
A. Bozzillio	2 25
M. DeMatteo	* 32 60
Mrs. F. Peterson	6 44
Burnett & Sherman	5 26
Lena Goldstein	10 19
J. T. Mackin	13 00
	<hr/>
<i>Carried forward</i>	\$11,129 76

\* Credited to Sewerage Works Appropriation.

<i>Brought forward</i>	\$11,129 76
Boston City Hospital	11 00
Mildred Blasland	15 00
Mr. Reardon	7 85
Park Department	72 88
A. G. Tomasello & Sons, Inc.	* 223 56
High Pressure Fire Service	64 50
Fenway Garage	13 00
Francis P. Doyle	15 00
J. C. Coleman & Sons Company	15 00
Health Department	* 108 50
Louis Stepnar	13 25
Michael Czeikas	12 00
Estabrook & Sibley	7 50
New England Railway Publishing Company	67
Annie Moore	21 47
Thomas J. Carroll	55 00
Bellevue Garage	8 27
Patrick H. Crowley	11 02
T. Danahy & Sons	19 00
Thomas J. Doig	20 25
Joseph Marsiello	13 50
John Bowers	15 50
Mrs. Leggett	11 00
P. J. Doyle	10 00
F. P. Davis	50 00
Delia L. Carter	20 00
Chamberlain Garage, Inc.	* 91 50
Boston Consolidated Gas Company	62 46
J. C. Coleman & Sons Company	37 50
A. E. Buffum	13 50
W. F. Perry Company	15 00
Mrs. Lawler	32 15
Fuedel & Co.	67 75
Frank E. Metcalf	134 13
Mayflower Oil Company	133 20
Ohio Varnish Company	10 00
P. DeCristoforo	* 10 41
C. F. Freigang	13 35
George Gonia	13 50
J. Richard Larkin	13 50
Philip Mednick	8 05
Bunett & Sherman	9 01
Frank Weiss	15 00
A. I. Rudnick	* 5 25
Herman Hinderkong	10 00
E. M. Irving	95
Hurley-Driscoll Building Company	* 229 05
I. L. Roberts	13 50
Transit Department	* 1,450 00
William Perry Company	40 00
E. M. Irving	1 90
C. J. Donovan	10 00
J. A. Breen	15 00
William S. Nolan	300 00
John J. Burke	200 00
William Perry Company	30 00
Edward E. Slattery	15 00
Standard Coal Company	100 00
<i>Carried forward</i>	\$15,065 14

\* Credited to Sewerage Works Appropriation.

<i>Brought forward</i> . . . . .	\$15,065 14
Humboldt Garage . . . . .	13 50
Herman L. Jacobs . . . . .	11 66
John Marshall . . . . .	5 00
Louis Martinello & Sons . . . . .	* 78 61
Ernest E. Cooke . . . . .	350 00
Courtney Hardware Company . . . . .	* 64 49
	<hr/>
	\$15,588 40
Uncollected . . . . .	112 78
	<hr/>
	\$15,475 62
Bids deposited in previous years collected in 1926 . . . . .	2,390 57
	<hr/>
Total amount collected . . . . .	<u>\$17,866 19</u>
Entrance fees charged and collected in accordance with Ordinances of 1925, chapter 27, section 10 . . . . .	<u>\$12,745 24</u>

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\* Credited to Sewerage Works Appropriation.

## Sewer Service.—Maintenance Expenditures, Detail, 1926.

## PUBLIC WORKS DEPARTMENT.

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ACCOUNTS.	Total Expendi- tures.	Labor.	Teaming.	Stock.	Contracts.	Miscellaneous.
Automobiles (20) .....	\$34,580 27	\$19,527 68	.....	.....	.....	Repairs..... \$2,537 61 Equipment..... 9,274 17 Supplies..... 3,124 81 Fees..... 116 00 \$15,052 59
Cleaning catch-basins .....	100,261 08	36,419 83	\$2,360 00	\$189 45	\$61,291 80	Dumping..... 251 00
Cleaning sewers .....	68,752 59	36,467 89	4,754 00	.....	27,279 70	Waste..... \$28 01 Repairs and inspection... 15 57 43 58
Engines and boilers .....	111 58	68 00	.....	.....	.....	.....
Employed at yards .....	41,811 15	41,811 15	.....	.....	.....	.....
Fuel and oil .....	2,324 77	.....	.....	.....	.....	Coal..... \$921 28 Gasoline and oil..... 1,403 49 2,324 77
Hardware and tools .....	4,104 05	.....	.....	.....	.....	Hose..... \$965 54 Hardware, etc..... 3,138 51 4,104 05
House connections .....	13,494 06	11,864 74	286 00	116 00	1,227 32	Fodder..... \$939 53 Stable goods and supplies, 8 25 Repairs, wagons and har- nesses..... 37 85 Shoeing..... 257 50 1,243 13
Horses, carts, harnesses .....	1,243 13	.....	.....	.....	.....	.....
Maintenance, Stony brook .....	2,332 40	1,836 40	470 00	26 00	.....	.....
Office expense .....	2,162 58	.....	.....	.....	.....	Postage..... \$259 72 Stationery and supplies... 1,656 68 Miscellaneous..... 246 18 2,162 58
Office salaries .....	15,327 99	15,327 99	.....	.....	.....	.....

## Sewer Service.—Maintenance Expenditures, Detail, 1926.—Concluded.

Accounts.	Total Expendi- tures.	Labor.	Teaming.	Stock.	Contracts.	Miscellaneous.
Rubber goods.....	\$696 43	.....	.....	.....	.....	{ 66 pairs boots..... 6 pairs mitts..... 107 coats..... 67 hats..... } \$696 43
Stock.....	15,159 22	\$1,671 75	.....	\$13,487 47	.....	.....
Teaming.....	7,297 21	7,297 21	.....	.....	.....	.....
Yard and locker.....	1,182 16	.....	.....	.....	.....	Gas and electricity..... \$216 36 Miscellaneous..... 965 60 1,182 16
Telephones.....	463 35	.....	.....	.....	.....	..... 463 35
Back Bay Fens, gatehouses.....	4,239 80	2,930 05	.....	.....	.....	Electricity..... \$1,212 82 Repairs, etc..... 96 93 1,309 75
Sundries.....	58,892 76	54,142 02	\$564 00	.....	.....	Repairs, etc..... \$1,818 23 Transportation..... 1,261 93 Workmen's Compensa- tion..... 1,106 58 4,186 74
Repairing department buildings.....	741 77	562 85	.....	178 92	.....	.....
Repairing catch-basins, South Boston....	2,157 00	1,304 50	148 00	704 50	.....	.....
" " East Boston.....	1,581 61	737 61	260 00	584 00	.....	.....
" " Charlestown.....	859 10	266 10	280 00	313 00	.....	.....
" " Brighton.....	958 38	524 38	88 00	346 00	.....	.....
" " West Roxbury....	1,851 74	945 74	98 00	808 00	.....	.....

"	"	Dorchester.....	4,058 45	2,819 45	262 00	977 00		
"	"	Hyde Park.....	550 02	459 02	38 00	53 00		
"	"	Roxbury.....	5,124 34	3,483 75	292 00	411 50	937 09	
"	"	city proper.....	5,849 71	4,181 20	326 00	915 50	427 01	
Repairing sewers, South Boston.....								
"	"	East Boston.....	1,004 50	804 50	104 00	96 00		
"	"	Charlestown.....	1,385 89	1,129 89	78 00	178 00		
"	"	Brighton.....	611 25	206 25	229 00	176 00		
"	"	West Roxbury.....	857 28	660 63	88 00	101 00	7 65	
"	"	Dorchester.....	4,570 12	3,306 17	210 00	1,053 95		
"	"	Hyde Park.....	4,051 90	2,403 19	230 00	389 00	1,029 71	
"	"	Roxbury.....	954 55	866 55	60 00	28 00		
"	"	city proper.....	1,442 17	965 83	337 34	139 00		
"	"	city proper.....	4,022 98	2,682 43	508 00	624 50	208 05	
Annuities.....			351 00					351 00
Pension roll, veterans and laborers.....								
			4,966 62	4,966 62				
			\$422,386 96	\$262,641 37	\$12,070 34	\$21,895 79	\$92,408 33	\$33,371 13
<i>Less Credits.</i>								
Teams.....								
Stock.....								
Fuel and oil.....			25,934 74	7,297 21		7,701 00		10,936 53
Totals.....			\$396,452 22	\$255,344 16	\$12,070 34	\$14,194 79	\$92,408 33	\$22,434 60

## MISCELLANEOUS ACCOUNT, DETAIL.

*Labor.*

Vacations . . . . .	\$10,130 57	
Sick leave . . . . .	1,149 89	
Snow removal . . . . .	14,075 65	
Salary, inspector of castings . . . . .	1,808 29	
Workingmen's compensation . . . . .	1,106 58	
Central office and other charges . . . . .	877 77	
Miscellaneous . . . . .	1,655 38	
Inspection — Complaints: Defec-		
tive drainage, prevention of gaso-		
lene entering common sewers . . . . .	12,419 36	
General engineering . . . . .	12,025 17	
		\$55,248 66
Teaming, removing snow . . . . .		504 00
Expert services . . . . .		200 00
Transportation . . . . .		1,261 93
Repairing streets . . . . .		1,004 16
Medical attendance . . . . .		169 70
Miscellaneous . . . . .		504 31
		<u>\$58,892 76</u>



# Sewer Service.— Maintenance Expenditures Detail, 1926.

Accounts.	Total Expenditures.	Labor.	Teaming.	Waste.	Fuel and Power.	Oil and Gasolene.	Packing.	Valves.	Trans- porta- tion.	Stable.	Pipe Fittings and Miscel- laneous.	Autos.
Pumping station, Calf Pasture:												
Inside.....	\$138,836 19	\$37,367 87	.....	\$723 80	\$87,065 39	\$60 75	.....	.....	\$74 69	.....	\$13,543 69	
Outside.....	30,112 95	27,462 50	\$78 00	.....	.....	.....	.....	.....	.....	\$1,073 48	102 86	\$1,396 11
Engines.....	46,477 96	37,871 08	.....	.....	.....	1,938 21	\$1,695 00	\$1,829 89	.....	.....	3,143 78	
Boilers.....	24,754 15	19,136 77	.....	.....	.....	.....	.....	.....	.....	.....	5,617 38	
Moon Island.....	25,931 24	20,400 00	.....	.....	648 05	.....	.....	.....	177 13	.....	1,793 63	2,912 43
Main and intercepting sewers.....	15,578 42	12,901 11	2,290 00	.....	.....	.....	.....	.....	.....	.....	387 31	
Pumping stations:												
Union Park street.....	8,245 79	6,543 83	.....	.....	323 98	.....	.....	.....	.....	.....	1,377 98	
Summer street.....	1,407 10	776 08	.....	.....	.....	.....	.....	.....	.....	.....	631 02	
Hyde Park.....	1,080 42	949 08	.....	.....	.....	.....	.....	.....	.....	.....	131 34	
Totals.....	\$292,424 22	\$163,408 32	\$2,368 00	\$723 80	\$88,037 42	\$1,998 96	\$1,695 00	\$1,829 89	\$251 82	\$1,073 48	\$26,728 99	\$1,308 54

## Recapitulation — Maintenance Detail, 1926.

	Improved Sewerage.	Outside Improved Sewerage.	Totals.
Labor.....	\$163,408 32	\$262,641 37	\$426,049 69
Contracts.....		92,408 33	92,408 33
Teaming, hired in city.....	2,368 00	12,070 34	14,438 34
Waste.....	723 80	28 01	751 81
Fuel and power.....	88,037 42	921 28	88,958 70
Oil.....	1,998 96	1,403 49	3,402 45
Packing.....	1,695 00		1,695 00
Valves.....	1,829 89		1,829 89
Transportation, etc.....	251 82	1,261 93	1,513 75
Horses, etc.....	1,073 48	1,243 13	2,316 61
Pipe fittings and miscellaneous.....	26,424 15		26,424 15
Telephone.....	304 84	463 35	768 19
Automobile, repairs and supplies.....	4,308 54	15,052 59	19,361 13
Stock supplies and miscellaneous.....		34,893 14	34,893 14
	\$202,424 22	\$422,386 96	\$714,811 18
CREDITS.			
<i>Outside Improved Sewerage.</i>			
Labor.....	\$7,297 21		
Stock.....	7,701 00		
Miscellaneous.....	10,936 53		
		25,934 74	25,934 74
Totals.....	\$202,424 22	\$396,452 22	\$688,876 44

## SUPPLIES AND FUEL, ENTIRE SERVICE.

*Supplies.*

2,714 pounds grease, 18 cents.  
 3,205 pounds waste,  $12\frac{3}{4}$  cents to 20 cents.  
 1,303 pounds cotton rags, 13 cents to 14 cents.  
 4,396.9 gallons engine oil, 21.3 cents.  
 1,079.5 gallons cylinder oil, 29.5 cents.  
 10 gallons air cylinder oil, 60 cents to 75 cents.  
 80.5 gallons sperm oil, 95 cents to \$1.40.  
 273.6 gallons turbine oil, 49.5 cents to 65 cents.  
 1 gallon lard oil, \$2.00.  
 1,507 gallons kerosene oil,  $14\frac{1}{2}$  cents to  $16\frac{1}{2}$  cents.

*Fuel.*

1,203,442.27 gallons fuel oil, \$58,279.30.  
 144.8 tons anthracite, \$1,908.57.

# Cleaning Catch-basins, 1926.— (By Contract.)

Districts.	Contractor.	Start and Finish of Work.	Price per Cubic Yard.	Cubic Yards Excavated by Contractor.	Contractor Received by Districts.	Total Basins Cleaned.	Total Drop Inlets Cleaned.	Average Cubic Yards per Basin.	Total Cost of Inspection.	Average Total Cost to City per Basin, Including Drop Inlets.
1. City proper.....	Ward Norton Company.....	{April 5, 1926 Dec. 26, 1926}	\$1 74	8,458.53	\$14,717 86	3,055	52	2.76	\$2,569 70	\$5.56
2. South End, Back Bay and Roxbury.....	P. J. Healey.....	{March 29, 1926 Oct. 28, 1926}	1 80	7,525.49	13,545 89	2,094	17	3.59	1,197 27	6 98
3. South Boston.....	John J. Loonie.....	{April 12, 1926 Dec. 24, 1926}	1 80	3,947.38	7,105 28	1,031	6	3.825	1,103 42	7 91
4. Charlestown and East Boston.....	P. J. Healey.....	{March 29, 1926 Dec. 31, 1926}	1 80	{ 1,891.06 1,947.17 }	6,908 80	{ 585 648 }	{ 2 6 }	3.11	903 76	6 29
5. Brighton.....	William R. Keough.....	{March 31, 1926 Nov. 1, 1926}	1 70	3,211.39	5,459 36	1,065	24	3 004	1,052 75	5 98
6. West Roxbury.....	The Pierce Company, Inc.....	{April 8, 1926 Nov. 27, 1926}	1 75	2,885.76	5,050 10	870	17	3.307	675 67	6 45
7. Dorchester and Hyde Park.....	The Pierce Company, Inc.....	{March 31, 1926 Dec. 21, 1926}	1 75	{ 4,301.78 557.92 }	8,504 51	{ 1,306 190 }	{ 20 14 }	3.237	1,794 05	6 73
Totals.....	.....	.....	.....	31,726.48	\$61,291 80	10,844	158	.....	\$9,296 62	.....

Total catch-basins cleaned..... 10,844  
Total drop inlets cleaned..... 158  
Total cost: Contractors..... \$61,291 80  
Inspection..... 9,296 62  
Advertising..... 9 50  
\$70,597 92

Total cubic yards, material removed, 34,726.48.  
Average cost per basin, including drop inlets, \$6.41.  
Average cubic yards, material removed per basin, 3.195.  
Average cost per cubic yard removed, \$2.03.

## Sewerage Works.

Expenditures, January 1, 1926, to December 31, 1926.

ACCOUNTS.	Labor.	Teaming.	Materials.	Miscellaneous.	Paid to Contractors.	Totals.
Engineers' salaries.....	\$100,978 19	.....	.....	.....	.....	\$100,978 19
Engineers' expense.....	3,652 16	\$500 25	.....	\$6,520 61	\$1,827 84	12,500 86
Pumping station.....	1,072 00	.....	\$107 35	3,313 10	16,142 25	20,634 70
Sundries.....	4,204 15	.....	2,254 49	.....	.....	6,458 64
Land takings and court executions.....	.....	.....	.....	4,366 94	.....	4,366 94
New manholes, entire city.....	12,728 91	925 00	4,505 80	1,312 15	8,559 07	28,030 93
New catch-basins, South Boston.....	1,667 94	120 50	566 20	35 93	1,280 55	3,671 12
New catch-basins, East Boston.....	115 21	14 00	70 60	958 50	759 83	1,918 14
New catch-basins, Charlestown.....	120 00	77 00	124 20	4 50	.....	325 70
New catch-basins, Brighton.....	946 60	230 00	805 00	.....	.....	1,981 60
New catch-basins, West Roxbury.....	3,903 58	186 00	1,623 25	174 20	1,050 00	6,937 03
New catch-basins, Dorchester.....	5,138 19	254 00	2,534 31	113 23	7,219 18	15,258 91
New catch-basins, Hyde Park.....	51 22	20 00	73 80	666 74	977 62	1,789 38
New catch-basins, Roxbury.....	10,559 08	487 00	3,945 84	207 01	10,418 43	25,617 36
New catch-basins, city proper.....	11,487 88	774 25	4,079 40	1,163 31	15,324 00	32,828 84
Sewers built in entire city.....	46,736 98	66 00	27,079 45	10,355 97	617,147 41	701,385 81
Totals.....	\$203,362 09	\$3,654 00	\$47,769 69	\$29,192 19	\$680,706 18	\$964,684 15

# Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.

LOCATION.	Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1926.
<b>SOUTH BOSTON.</b>						
Marine road, from I street to M street.* . . .	June 14, 1926	July 20, 1926	A. Grande. . . . .	378.70 14	12" pipe, sanitary. Catch-basin drain. 1 catch-basin. 3 manholes.	\$4,278 29
East Seventh street, from Columbia road to O street.*	July 28, 1926	Aug. 21, 1926	C. Russo. . . . .	345	12" pipe, sanitary. 2 manholes.	3,144 19
<b>EAST BOSTON.</b>						
Seaview avenue, from Orient avenue to Tower street.						124 62
Lubec street, from Maverick street to 125 feet northeasterly; Marginal street and outlet in Commonwealth dock; Webster street, east of Lewis street.*	Not started . . . . .		D. Vozzela. . . . .			8 75
Meridian street, from Monmouth street to Nay street.			A. Grande. . . . .	130	Catch-basin drain. 5 catch-basins. 2 drop inlets.	†
<b>BRIGHTON.</b>						
Presentation road, from Washington street to Bellamy street.						140 05
Western avenue, from North Harvard street to Charles river.						1,020 63
Ransom road and Euston road, from Colonial road to Claymoss road.						374 59

\* Cost not complete.

† See Hollingsworth street, Dorchester.

Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.— Continued.

LOCATION.	Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1926.
BRIGHTON.— <i>Continued.</i>						
Radnor road and Kirkwood road and outlet in Foster street.	.....	.....	.....	.....	.....	\$996 69
Bostonia avenue, from Regent road to about 300 feet easterly.	.....	.....	.....	.....	.....	42 61
Faneuil street, from Market street to Good- enough street and outlet in private land.	.....	.....	.....	.....	.....	1,468 43
Ricker terrace, from Cufflin street to Newton line.	.....	.....	.....	.....	.....	134 42
Private land and Boston & Albany Railroad, from Reservoir lane to Brookline line.	.....	.....	.....	.....	.....	626 22
Winship street, from Union street to Chest- nut Hill avenue.	.....	.....	.....	.....	.....	299 81
Arlington street, from Faneuil street to Par- sons street.	.....	.....	.....	.....	.....	832 49
Ashford street, from Malvern street to Bab- cock street.	.....	.....	.....	.....	.....	1,134 27
Taylor street; Willoughby street to Lake street; Flagg street; Willoughby street to Lake street.	.....	.....	.....	.....	.....	228 93
Foster street, from Kenrick street to Wash- ington street.	Oct. 19, 1925	Jan. 12, 1926	.....	8.05 145.80 7	12" pipe, sanitary 10" pipe, surface. 10" cast-iron pipe, surface. 1 manhole.	3,780 11
Ransom road, from existing sewer to 50 feet northerly.	Dec. 28, 1925	March 15, 1926	.....	49.92	10" pipe, sanitary	1,503 48

North Crescent circuit, from Breck avenue to about 875 feet easterly.*	May 13, 1926	June 2, 1926	DeCristoforo Brothers Company.	889.33 846.42 28	10" pipe, sanitary. 10" pipe, surface. 12" cast-iron pipe, surface. 11 manholes.	6,612 57
Allston street, from existing surface drain to Florence avenue.	May 8, 1926	May 20, 1926	Charles Struzziery.	123.85 222.25 88	24" D. S. pipe, surface. 18" D. S. pipe, surface. Catch-basin drain. 2 manholes. 4 catch-basins.	4,558 45
Wade street, from Commonwealth avenue to about 650 feet southwesterly.*	May 27, 1926	June 29, 1926	DeCristoforo Brothers Company.	749.46 41	12" pipe, surface. Catch-basin drain. 6 manholes. 4 catch-basins.	7,778 98
Morris street, from Market street to Glencoe street, and Brayton road, from Brayton way to Newton line.*	July 27, 1926	Sept. 10, 1926	M. DeSisto Company.	1,117.97 361.78 14	10" pipe, sanitary. 10" pipe, surface. 10" cast-iron pipe, surface. 10 manholes.	5,173 60
Graylock road from Glenville road to Allston street; Gordon street, from Pomeroy street to Saunders street, and Allston Heights, from Cambridge street to Colon street.*	Aug. 25, 1926	.....	V. Barletta.	223.00 123.45 1,352.11 410.85 456.56 292.63 150	2' 6" concrete conduit. 24" D. S. pipe, surface. 20" D. S. pipe, surface. 12" pipe, surface. 10" pipe, surface. 10" pipe, sanitary. Catch-basin drain. 20 manholes. 10 catch-basins.	21,142 24
Montcalm avenue, from Glencoe street to Dustin street; Etna street, from Saybrook street to Montcalm avenue and Murdock street, from Cushman road to Montcalm avenue.*	Sept. 29, 1926	Nov. 18, 1926	V. Barletta.	45 171.70 509.07 767.07 178.95 102	12" pipe, sanitary. 20" D. S. pipe, surface. 15" pipe, surface. 12" pipe, surface. 10" pipe, surface. Catch-basin drains. 15 manholes. 9 catch-basins.	8,449 93
Cambridge street, from Royal street to Mansfield street and outlet in Royal street; Commonwealth avenue, north side, from culvert 600 feet west of Essex street to Essex street.*	Oct. 25, 1926	Nov. 12, 1926	M. Guarino.	305.51 172.83	10" pipe, sanitary. 10" pipe, surface. 5 manholes.	2,281 40

\* Cost not complete.

**Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.—Continued.**

LOCATION.	Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1926.
<b>BRIGHTON.—Continued.</b>						
Antwerp street, from Western avenue to Lincoln street; Ascot street, from Antwerp street to Litchfield street; Benson street, from Antwerp street to Litchfield street; Cygnet street, from Antwerp street to Litchfield street; Duval street, from Antwerp street to Litchfield street.	Nov. 2, 1926	Dec. 24, 1926	A. Grande.	220 736 217 223 217 1,215 217	10" pipe, sanitary. 10" pipe, surface. 12" pipe, surface. 18" D. S. pipe, surface. 20" D. S. pipe, surface. 24" D. S. pipe, surface. Catch-basin drain. 18 manholes. 15 catch-basins.	\$1,812 67
North Harvard street, from Bertram street to Kingsley street.†	.....	.....	Joseph Todesca.	50	10" pipe, sanitary. 1 manhole.	.....
Dickinson road, from Washington street to 450 feet southwesterly.‡	.....	.....	M. DeSisto Company.	421.32 290.15	10" pipe, sanitary. 10" pipe, surface. 5 manholes.	.....
<b>WEST ROXBURY.</b>						
Germantown district and outlet in East street, Dedham.*	.....	.....	.....	.....	.....	8,464 73
Pheasant street, from Washington street to Falcon street.	.....	.....	.....	.....	.....	121 57
Catch-basins and manholes in Roxbury, Dorchester and West Roxbury.	.....	.....	.....	.....	.....	253 12
Greation road, from Weld street to summit.	.....	.....	.....	.....	.....	274 34
Winton street, from Hautevale street extended to end of street.	.....	.....	.....	.....	.....	115 11
Arborway, from Centre street to Custer street.	.....	.....	.....	.....	.....	113 51



Theodore Parker road and outlet in Weld street.	.....	.....	.....	.....	.....	356 75
Sunset Hill road and outlet in Centre street.	.....	.....	.....	.....	.....	567 25
Washington street, from Grove street to 150 feet northeast of Intervale avenue.	.....	.....	.....	.....	.....	2,466 63
Centre street and Goodrich road. ....	.....	.....	.....	.....	.....	53 19
Centre street, from existing sewer to 400 feet southwest of Greenhill avenue.	.....	.....	.....	.....	.....	652 84
Bourne street, from Catherine street to Patten street.	.....	.....	.....	.....	.....	811 53
Halford road and outlet in Church street to Centre street.	.....	.....	.....	.....	.....	763 17
Weld street, from Church street to Schirmer road.	.....	.....	.....	.....	.....	444 32
Granfield avenue, from Roslindale brook to Washington street.	.....	.....	.....	.....	.....	1,270 50
Waldon road, from Washington street to New York, New Haven & Hartford Railroad.	.....	.....	.....	.....	.....	1,388 70
Water street, from Williams street to McBride street.	.....	.....	.....	.....	.....	73 61
Louder's lane, from existing sewer to about 100 feet westerly.	.....	.....	.....	.....	.....	151 41
Marion road, from Centre street to 550 feet westerly.	.....	.....	.....	.....	.....	4,637 84
Roseway street, from existing sewer to 225 feet southeasterly.	.....	.....	.....	.....	.....	814 55
Lochdale road, from Washington street to 200 feet westerly.	.....	.....	.....	.....	.....	1,392 16

\* Cost not complete.

† See Willowdean avenue, West Roxbury.

‡ See St. Joseph street, West Roxbury.

**Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.— Continued.**

LOCATION.	Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1926.
<b>WEST ROXBURY.— Continued.</b>						
Centre street, from 700 feet south of Louder's lane to 800 feet southerly and outlet in private land; Arboretum and Arborway, from Centre street to Centre street.						\$100 00
Centre street, from Spring street to South street.						100 00
Lark street; private land; Robin street and La Grange street.*	Aug. 3, 1925	April 24, 1926	DeCristoforo Brothers Company.	149.37	10" pipe, sanitary. 3 manholes.	13,043 47
Elmwood street, from Glendale road to North avenue and outlet in Glendale road to Keystone street.	Nov. 19, 1925	May 18, 1926	V. Barletta.....	756.46	10" pipe, sanitary. 7 manholes.	12,188 94
Morton street, from Morton road to Canterbury street.*	Nov. 19, 1925	June 9, 1926	J. C. Coleman & Sons Company.	152.40 642.38 758.02 459	24" pipe, surface. 13" pipe, surface. 12" pipe, surface. Catch-basin drain. 12 manholes. 17 catch-basins.	15,791 76
Manning street, between Roslindale avenue and Park street.	Nov. 23, 1925	Jan. 16, 1926	C. Russo.....	93.07	10" pipe, sanitary. 1 manhole.	3,426 44
Sidley road, from Ardmore road to 110 feet southerly.	Dec. 28, 1925	April 3, 1926	Day labor.....	110.75	10" pipe, sanitary. 1 manhole.	1,098 79
Weld street, from Church street to Theodore Parker road.	May 19, 1926	June 19, 1926	Joseph Capone.....	500.84	10" pipe, sanitary. 1 manhole.	1,953 66
Whiting street, Harwood street, Keith street and Baker street.*	May 19, 1926	Aug. 3, 1926	M. DeMatteo.....	1,438.63	10" pipe, sanitary. 6 manholes	8,648 63

Corey street, from Centre street to Grayfield avenue and Pomfret street, from Corey street to Weld street.*	May	19, 1926	July	7, 1926	Charles Struzziery.....	302.37 99.20 566.17 537.96 401.17 204.55 140	24" D. S., pipe, surface. 20" D. S., pipe, surface. 18" D. S., pipe, surface. 15" pipe, surface. 12" pipe, surface. 10" pipe, surface. Catch-basin drains. 11 manholes. 5 catch-basins.	11,109 49
Stony brook (section 10A); Rosindale branch of Stony brook, from Toll Gate road to Braden street.*	June	14, 1926	.....	.....	J. J. Coughlin & Sons, Inc.,	794 14	17' by 13' 9" concrete conduit..... 11' 3" by 10' 9" concrete conduit. 2 manholes.	73,208 89
Pershing road, from Centre street to Pondview avenue.*	July	26, 1926	Aug.	7, 1926	DeCristoforo Brothers Company.	873.40	10" pipe, sanitary..... 5 manholes.	2,544 80
Williams street, from Plainfield street to Forest Hills street.*	June	8, 1926	Aug.	3, 1926	A. Cefalo.....	1,088.47	10" pipe, sanitary..... 7 manholes.	6,234 73
Elmwood street, from existing sewer to North avenue.	April	19, 1926	May	18, 1926	V. Barletta.....	175.83	10" pipe, sanitary..... 1 manhole.	3,189 37
Maple street, from Addington road to Weld street.*	July	19, 1926	Aug.	25, 1926	Joseph Todesca.....	1,007.19 44	12" by 10" pipe, surface..... Catch-basin drain. 6 manholes. 4 catch-basins.	4,576 92
Goldsmith brook in Pond street, and Rockwood street and private land.*	July	7, 1926	Sept.	29, 1926	Charles Struzziery.....	1,215.01 144.70 161	3' by 3' concrete conduit..... 12" pipe, sanitary. Catch-basin drain. 1 manhole.	14,987 53
Private land, Addington road extended and in West Border road, and West Roxbury Parkway.*	Aug.	2, 1926	Oct.	14, 1926	DeCristoforo Brothers Company.	752.43 1,743.26 1,739.65	5 catch-basins. 12" pipe, sanitary..... 10" pipe, sanitary. 8" to 10" pipe, surface. 25 manholes.	17,726 32
Penter street, from Dent street to La Grange street and Hopkins road, from Pond street to Mt. Walley road.*	Aug.	20, 1926	Sept.	22, 1926	C. Russo.....	1,172.00 335.55 12 36	10" pipe, sanitary..... 10" pipe, surface. 10" cast-iron pipe, surface. Catch-basin drain. 10 manholes. 1 catch-basin.	6,421 49

\* Cost not complete.

Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.— Continued.

LOCATION.	Begun.	Finished.	Built by.	Length, (Feet.)	Contractor.	Amount Expended in 1926.
<b>WEST ROXBURY.— Continued.</b>						
Walworth street, from Brook street to Washington street.*	Oct. 7, 1926	Dec. 1, 1926	DeCristoforo Brothers Company.	304.40 354.65 210.80 534.10 146.75 376	24" D. S. pipe, surface. 18" D. S. pipe, surface. 10" pipe, surface. 3' circular concrete conduit. 2' 9" circular concrete conduit. Catch-basin drain. 11 manholes. 12 catch-basins.	\$12,196 45
Hillside street, from Clarendon avenue to 155 feet northeast of Clarendon avenue, from Hillside avenue to 300 feet northwest; Summer street, from Autumn street southeasterly.*	Aug. 23, 1926	Oct. 15, 1926	Charles Struzziery.	463.85 264.65	10" pipe, sanitary. 10" pipe, sanitary. 5 manholes.	5,059 62
Willowdean avenue, from Weld street to Parkvale road; St. Peter street, from Paul Gore street to 200 feet southwesterly; North Harvard street, from Bertram street to Kingsley street, Brighton.*	Sept. 13, 1926	Nov. 3, 1926	Joseph Todesca.	506.95 199.85	10" pipe, sanitary. 10" pipe, sanitary. 4 manholes.	4,304 61
St. Joseph street, from Woodman street to South street; Dickinson road, from Washington street to 450 feet southerly; Brighton; Sunset street, from Eldora street to Parker Hill avenue, Roxbury.*	Sept. 13, 1926	Nov. 15, 1926	M. DeSisto Company.	101.00	10" pipe, sanitary. 3 manholes.	5,916 06
Montview street, from Corey street to Kirk street.*	Sept. 23, 1926	Oct. 5, 1926	Zoppo & Civitates.	319.50	10" pipe, surface. 3 manholes.	1,123 48
Stratford street, from Woodward road to West Roxbury Parkway; Woodward road, from West Roxbury Parkway to Stratford street; Boxford terrace, from Park street to 200 feet southwesterly.*	Oct. 21, 1926	Nov. 30, 1926	Charles Struzziery.	1,143.60 225.30 1,135.20 220	10" pipe, sanitary. 10" pipe, sanitary. 10" to 15" pipe, surface. 10" pipe, surface. 18 manholes.	7,045 73

Parkway avenue and West Roxbury Parkway; Lasell street, from Harvard street to La Grange street.*	Oct. 14, 1926	Nov. 6, 1926	A. Cefalo.....	801.18 788.40 120.40	10" pipe, sanitary 10" pipe, surface. 10" pipe, sanitary. 11 manholes.	5,023 05
Baker street, from Elmwood street to Centre street; Nut street, from Glendale road to 300 feet southwesterly; Riverview street, from North avenue to Upland street.*	Nov. 3, 1926		John Williams & Co.....	599.62 199.76 538.60	10" pipe, sanitary 10" pipe, sanitary. 10" pipe, sanitary. 8 manholes.	5,640 65
View South avenue, from St. Rose street to 180 feet southerly.*	Dec. 17, 1926		DeCristoforo Brothers Company.	171.55 161.01	10" pipe, sanitary 10" pipe, surface. 4 manholes.	289 98
Alarie street, from Spring street to Centre street; Louder's lane, from existing sewer to end of street.*	Nov. 20, 1926		Joseph Capone.....	353.20 304 300	10" pipe, sanitary 10" pipe, surface. 10" pipe, sanitary. 4 manholes.	1,956 43
Realtown road, from Willowdean avenue to Weld street.*	Dec. 3, 1926	Dec. 23, 1926	Zoppo & Civitaris.....	249.17	10" pipe, sanitary 2 manholes.	151 57
Rockwood street, from existing sewer to 150 feet northerly.*	Dec. 7, 1926	Dec. 23, 1926	Charles Struzziery.....	150.05	10" pipe, sanitary 1 manhole.	193 81
Winton street, from 350 feet southeast of Hautevale street extended to 260 feet southeast.	Nov. 22, 1926		A. Piatelli and C. Andreasse.			105 53
Vermont street and outlet in private land, from Caspar street to Vermont street.*	Dec. 3, 1926		V. Barletta.....			321 31
Russett road, from Weld street to 275 feet southeast of Pierpont road; Pierpont road, from Church street to Theodore Parker road.*			DeCristoforo Brothers Company.			117 50
La Grange street, from Lasell street to Vermont street; Caspar street, from Metropolitan sewer to Lasell street; Varick road, from Chiswick road to Temple street; Worley street, from Metropolitan sewer to Brook Farm road; Beech street, from Poplar street to Alpheus road.*			M. Desisto Company.....			134 50

\* Cost not complete.

**Sewerage Works Construction, January 1, 1926, to December 31, 1926, Inclusive.—Continued.**

LOCATION.	Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1926.
<b>WEST ROXBURY.—Concluded.</b>						
Private land from Rosindale avenue to Metropolitan avenue; Pheasant street, from Falcon street to Bobolink street.*	.....	.....	Joseph Todesca.....	.....	.....	\$73 50
Askland street, from Wood avenue to 56 feet northwest of Pleasant View street.*	June 28, 1926	Oct. 27, 1926	A. Platelli and C. Andreasse,	505.10 326.00	10" pipe, sanitary. 10" pipe, sanitary. 4 manholes.	†
Moody street, from Ashland street to Roanoke road; Whipple avenue, from Washington street to 150 feet southeasterly,	April 29, 1926	May 11, 1926	V. Bartella.....	150.10	10" pipe, sanitary. 1 manhole.	†
Palirey street, off Brown avenue.....	June 9, 1926	June 14, 1926	Charles Struzziery.....	30.00	8" pipe, sanitary 1 manhole.	†
<b>DORCHESTER.</b>						
Astoria street, from Flint street to Elizabeth street.	Nov. 8, 1925	Jan. 7, 1926	George J. Regan.....	28.00	12" pipe, sanitary. 3 manholes.	4,750 60
Bernard street, from Southern avenue to Norfolk street.	.....	.....	.....	.....	.....	976 19
Chelmsford street, from Adams street to Charlemont street and outlet in private land, from Minot street to Chelmsford street, and North Monroe terrace, from Neponset avenue to Train street.	.....	.....	.....	.....	.....	293 22
Estrella street, from Harvard street to Morton street.	.....	.....	.....	.....	.....	256 42
Freeland street, from existing sewer about 310 feet north of Standard street to Eskridge street.	.....	.....	.....	.....	.....	109 82

Mildred avenue, from existing sewer 225 feet northeast of Babson street to 580 feet northeasterly.					125 88
Semont road, from Florida street to Dorchester avenue.					262 79
Savannah avenue, from existing sewer 50 feet northeast of Monterey avenue to about 150 feet northeasterly.					401 04
Savin Hill avenue, from 150 feet southwest of Dillingham street to about 150 feet southwest.					1,327 60
Tolman street, from Neponset avenue to about 200 feet easterly.*					582 14
Verrill street, from Morton street to Woodson street.					117 63
Wilmington avenue, from existing sewer 380 feet northeast of Capen street about 253 feet northeasterly.					53 86
Wales place, from Vaughan avenue to about 125 feet northwesterly.					523 39
Bellevue street, from Berry street to Hamilton street.					349 38
Clarence terrace, from Wentworth street to about 185 feet westerly of Dorchester; and Lexington avenue, from existing sewer about 150 feet northwest of Jefferson street to Westminster street, Hyde Park.					553 80
Guild road, from existing sewer, 172 feet southeast of Elm road to about 148 feet northwesterly.					16 99
Locust street, from Buttonwood street to New York, New Haven & Hartford Railroad.					122 35

\* Cost not complete.

† See Hyde Park.

‡ See new catch-basins, West Roxbury.

Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.— Continued.

LOCATION.	Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1926.
<b>DORCHESTER.— Continued.</b>						
Colorado street, from Almont street to about 80 feet northwesterly.	.....	.....	.....	.....	.....	\$34 93
Elm avenue, from existing sewer, at Foss road to about 115 feet northeasterly.	.....	.....	.....	.....	.....	28 10
Hazleton street, from existing surface drain 104 feet northwest of Fofidler road and Wellington Hill footway.	.....	.....	.....	.....	.....	115 12
Lorna road, from Tiverton street to Morton street and private land, from Lorna road to West Selden street.	.....	.....	.....	.....	.....	326 36
Lenoxdale avenue, from existing sewer 418 feet southeast of Marsh street to about 100 feet southwesterly.	.....	.....	.....	.....	.....	23 99
Milton street, from Hallet-Davis street to Whittredge street.	May 13, 1926	June 5, 1926	N. DeBartolomeo Company,	660.50	10" pipe, sanitary 4 manholes.	3,981 35
Elm avenue, from Burgoyne street to Adams street.*	May 19, 1926	June 5, 1926	D. Vozella.....	544.50	10" pipe, sanitary 4 manholes.	2,257 09
Colorado street, from Currier street to 65 feet southwest of Messinger street; Orlando street, from 75 feet southwest of New-castle street to about 275 feet northeast, and outlet in Messinger street, from Favre street to 492 feet northwest and private land and Messinger street and Orlando street.*	May 24, 1926	Oct. 9, 1926	James J. Conway.....	2,000.02	12" pipe, sanitary 10 manholes.	20,083 71
Bismarck street, from Oakland street to Messinger street.*	May 13, 1926	July 16, 1926	M. DeSisto Company.....	769.50	10" pipe, sanitary 5 manholes.	6,445 86



Myrtlebank avenue, from Marsh street 375 feet south; Elm avenue, from Wilcox road 124 feet southeast; Richard terrace, from Wentworth street 173 feet west; Roanoke road, from Kennebec street to Weybosset street; Dedham street, from Glenwood avenue 252 feet southwest.*†	June	12, 1926	Aug.	7, 1926	N. DiBartolomeo Company,	748.60	10" pipe, sanitary. 5 manholes.	6,005 58
Outlook road, from Ormond street to about 525 feet northwesterly.*	July	12, 1926	Aug.	14, 1926	Charles Struzziery	539.85	10" pipe, sanitary. 4 manholes.	2,158 59
Westmore road, from Deering road to about 525 feet northwesterly.*	June	10, 1926	July	3, 1926	Samuel J. Tonasello	244.84 230.00 6.00 112.00	10" pipe, sanitary. 10" C. I. pipe, surface. Catch-basin drain. 3 manholes. 8 catch-basins.	3,330 80
Codman street, from Oakridge street to Nevada street; Codman Hill avenue, from Washington street to Milton avenue extension and outlet in Milton avenue extension, from Codman street to Codman Hill avenue.*	July	1, 1926	Oct.	20, 1926	M. DeSisto Company	657.85 1,353.72 302.60	12" pipe, sanitary. 10" pipe, sanitary. 10" pipe, sanitary. 14 manholes.	8,350 25
Walk Hill street, from Fottler road to Wellington Hill footway and Courland road, from Morton street to Harvard street.*	June	21, 1926	July	24, 1926	DeCristoforo Brothers Company.	379.05 192.00 640.79 156.00	18" pipe, surface. 15" pipe, surface. 12" and 10" pipe, surface. Catch-basin drains. 10 manholes. 9 catch-basins.	9,256 04
Hollingsworth street, from Randolph road to Oakland street; Oakland street, from Chester street to Hollingsworth street; Verdun street, from Codman street to Carroll street; Dunkeld street, from Fayston street to Quincy street; Menton street, from Standard street to Groveland street; Meridian street, from Monmouth street to Nay street; Coffing street, from Nashua street to Lowell street.†§	Aug.	24, 1926	Nov.	1, 1926	A. Grande	220.10 452.50 765.00 190.00 249.80 239.00	10" pipe, sanitary. 10" pipe, surface. 12" pipe, surface. 15" pipe, surface. 10" and 12" pipe, surface. Catch-basin drains. 19 manhole 16 catch-b ns.	16,764 98

\* Cost not complete.

† See Hyde Park.

‡ See East Boston.

§ See City Proper.

Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.—Continued.

LOCATION.	Begun.	Finished.	Built by.	Length. (feet.)	Character.	Amount Expended in 1926.
<b>DORCHESTER.—Continued.</b>						
Rockdale street, from existing sewer 504 feet from Randolph road to about 656 feet northeast; Duxbury road, from Riverdale road to River street; Hosmer street, from 163 feet northwest of Norfolk street to about 225 feet northwest.*	Aug. 23, 1926	Dec. 18, 1926	D. Vozzella.....	1,210.70	10" pipe, sanitary. 7 manholes.	\$9,687 88
Ormond street, from Outlook road 627 feet north and northwesterly and outlet in passageway to Goodale road.	Sept. 30, 1926	Oct. 23, 1926	Charles Struzziery.....	840.24 190.30	10" pipe, sanitary. 10" pipe, surface. 10 manholes.	3,825 83
Fuller street, from Washington street to 1,038 feet westerly; Ruskin road, from Blake street to 290 feet northwest; Tyler street, from Loring street to 75 feet southeast.†	Oct.	.....	George J. Regan.....	1,037.40	12" pipe, sanitary. 5 manholes.	3,857 66
Regina road, from Washington street to Alpha road; Danube street, from 345 feet northeast of Dewey street to 215 feet southwest; Mt. Bowdoin terrace, from 290 feet southeast of Eldon street to 290 feet south-easterly.*	Sept. 17, 1926	Nov. 8, 1926	N. DiBartolomeo Company,	601.64 212.85 202.57 39.00	10" by 12" pipe, surface. 10" pipe, sanitary. 10" pipe, sanitary. Catch-basin drain. 7 manholes. 3 catch-basins.	5,207 61
Hillside street, from Adams street to about 820 feet northwesterly.*	Oct. 14, 1926	Nov. 6, 1926	Samuel J. Tomasello.....	344.90 218.00	15" pipe, surface. Catch-basin drain. 3 manholes. 10 catch-basins.	4,124 85
Elene street, from Alabama street to Wabash street; Wabash street from Elene street to Prairie street; private land, from Prairie street to Harvard street; Harvard street, from private land to Hazleton street, Hazleton street from Harvard street to Westmore road.*	Nov. 3, 1926	.....	Charles Struzziery.....	441.00	10" pipe, sanitary.....	2,994 70

Fessenden street, from Norfolk street to Blue Hill avenue; Beacon street, from Milton line to New Bedford street.†	Nov. 12, 1926	M. Guarino.....	675.00 34.00	12" pipe, surface. Catch-basin drain. 4 manholes. 2 catch-basins.	5,897 46
Bushnell street, from Wyanoke street to Van Winkle street; Lenoxdale avenue, from 205 feet southeast of Milton street to a point 45 feet southeast; Rosmont road, north-east and southeast from Adams street to Florida street.*	Nov. 26, 1926	N. DiBartolomeo Company,	47.50 62.00	10" pipe, sanitary. Catch-basin drain. 2 manholes. 5 catch-basins.	1,242 25
Goodale road, from 440 feet southeast of Wellington Hill street to 249 feet northwest; Hazleton street, from 170 feet northwest of Wellington Hill footway to 50 feet northwest; Holborn street, from Della street to 190 feet southeast; Ruskin road, from Randolph road to a point 125 feet northwest, Hyde Park.*	Dec. 6, 1926	James J. Conway.....	50.00 75.00	8" pipe, sanitary. 10" pipe, sanitary.	1,306 19
Manchester street, from Groveland street to Standard street.*	Oct. 19, 1926	A. Grande.....	60.10	10" pipe, sanitary.	288 14
Dorchester avenue, from King street to Cleverus road.*					7 75
Delmont street, from Adams street to Charle-mont street and outlet in private land, from Delmont street to Franconia street.*					18 50
Floyd street, from Lucerne street to Callen-der street.* ‡			82.00	Catch-basin drain. 8 catch-basins.	
HYDE PARK.					
Atherton avenue, from Fairview avenue about 340 feet northwesterly and outlet in Fairview avenue.					404 48
Loring place and outlet in private land from Loring place to Garfield avenue.					206 24

\* Cost not complete.

† See Hyde Park.

‡ See Beacon Street Parkway.

Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.—Continued.

LOCATION.	Begun.	Finished.	Built by.	Length. (feet.)	Character.	Amount Expended in 1926.
<b>HYDE PARK.—Concluded.</b>						
River street, from Mounponset street to Wachusett street.	.....	.....	.....	.....	.....	\$123 08
Summit street, from existing sewer 210 feet northeast of Milton avenue about 175 feet northeasterly.	.....	.....	.....	.....	.....	36 30
Ruskin road, from existing sewer 317 feet southeast of Wood avenue about 135 feet northeasterly, Hyde Park and Iasca street, from existing sewer 350 feet northeast of Canaan street about 20 feet northeasterly, Dorchester.	.....	.....	.....	.....	.....	142 96
Summer brook in private land, from Neponset river to River street near Wood avenue.*	Dec. 7, 1925	Jan. 3, 1926	A. Cefalo.....	181 709 148	24" D. S. pipe, surface. 5' 9" concrete surface. Catch-basin drains. 5 manholes. 4 catch-basins.	31,502 24
Tyler street, from Water street to Loring street.	Nov. 30, 1925	April 8, 1926	M. DeMatteo.....	202.62	10" pipe, sanitary 3 manholes.	2,141 26
Vose avenue, from Erie street to Pleasant street, Erie street, from Milton street to Vost avenue, Huntington avenue, from Madison street to Collins street.*	May 17, 1926	Aug. 21, 1926	Zoppo & Civitarese.....	1,398.50 1,206	10" by 12" pipe, sanitary..... 10" pipe, sanitary. 18 manholes.	19,894 68
Asbland street, from Wood avenue to about 56 feet northwest of Pleasantview street, and Moody street, from Ashland street to Roanoke road.*	June 28, 1926	Oct. 27, 1926	A. Piatelli and C. Andreasse,	843.80	10" pipe, sanitary. 5 manholes.	13,748 88
Foster street, from Water street to Loring street.*	Oct. 14, 1926	Nov. 5, 1926	Zoppo & Civitarese.....	399.77	10" pipe, sanitary. 2 manholes.	1,951 27
Roanoke road, from Kennebec street to Weybosset street and Dedham street, from Glenwood avenue to about 252 feet southwest.†	.....	.....	.....	476.90	10" pipe, sanitary. 2 manholes.	

Tyler street, from Loring street to about 75 feet southeasterly and Ruskin road, from Blake street to about 290 feet northwesterly.†					406.02	10" pipe, sanitary. 3 manholes.
Beacon street, from Milton line to New Bedford street. §					126.50 142.50	24" D. S. pipe, surface. Catch-basin drains. 2 manholes. 5 catch-basins.
Ruskin road, from Radcliffe road to about 125 feet northwest.					123	8" pipe, sanitary. 1 manhole.
Wolcott court. ¶					150 12	12" pipe, surface. Catch-basin drains. 1 manhole. 1 catch-basin.
ROXBURY.						
Ipwich street, from Boylston street to 268 feet northwesterly.						308.12
Sonoma street, from Maple street to Elm Hill avenue.						89.38
Stoneholm street, from Norway street to a point about 200 feet northerly.						426.32
Kilmarnock street, from Boylston street to Queensberry street.						3,361.04
Dorchester brook sewer in private land, Lawrence avenue and Blue Hill avenue, from Quincy street to Intervale street.	June 23, 1925	Jan. 31, 1926	C. & R. Construction Co.		23.50 60.43 24 30.53 5 121.68 2 72.88 2.77 70.23	12" pipe, sanitary. 15" pipe, sanitary. 20" pipe, sanitary. 24" pipe, sanitary. 12" pipe, surface. 15" pipe, surface. 18" pipe, surface. 24" pipe, surface. 5' by 3' concrete surface. 3' by 3' concrete surface. 8 manholes.

\* Cost not complete.  
§ See Fessenden street, Dorchester.

† See Myrtlebank avenue, Dorchester.  
|| See Goodale road, Dorchester.

‡ See Fuller street, Dorchester.  
¶ See new catch-basins, Hyde Park.

**Sewerage Works, Construction, January 1, 1926, to December 31, 1926, Inclusive.—Concluded.**

LOCATION.	Begun.	Finished.	Built by.	Length. (Feet.)	Character.	Amount Expended in 1926.
<b>ROXBURY.—Concluded.</b>						
Sunnyside street, from Creighton street to Westerly street.*	June 1, 1926	June 30, 1926	C. Russo.	224.35 224.53	10" pipe, sanitary. 12" pipe, surface. 3 manholes.	\$2,606 86
Leon street, from Greenleaf street to about 375 feet southerly.	June 28, 1926	July 31, 1926	C. Russo.	376.38 378.93	12" pipe, sanitary. 12" pipe, surface. 4 manholes.	5,216 43
Dana street, from Dudley street to Cliff street.*	Oct. 4, 1926	Nov. 16, 1926	A. Grandé.	229.75	12" pipe, sanitary. 3 manholes.	94,099 41
Beacon street, at Brookline avenue; Beacon street, at Charlesgate East and West; Arlington street, from Columbus avenue to St. James avenue; Providence street, from Church street to St. James avenue; A street, at Richards' street, manholes, catch-basins and drains in Roxbury and Dorchester.*	Oct. 5, 1926	.....	T. J. O'Connell.	166.85 36 120 198	12" pipe, surface. 12" cast-iron pipe, surface. Catch-basin drain. Catch-basin drain. 8 manholes. 9 catch-basins.	6,939 06
Dennison street, from Walnut avenue to a point about 627 feet northwesterly.*	Nov. 8, 1926	Dec. 26, 1926	Zoppo & Civitarose.	613.20 12 27	12" pipe, surface. 12" cast-iron pipe, surface. Catch-basin drain. 5 manholes. 3 catch-basins.	3,801 30
Spring court, from Fellows street to a point about 180 feet southeasterly.*	Nov. 10, 1926	Nov. 24, 1926	A. D. Daddario.	174.05	1' 6" by 2' concrete, sanitary. 3 manholes.	2,277 76
Sunset street, from Eldora street to Parker Hill avenue.	†	.....	.....	139.68 40	10" pipe, sanitary. Catch-basin drain. 1 manhole. 2 catch-basins.	
Rockland street, from Hewes street to Dale street.	†	.....	.....	154.30 65	12" pipe, sanitary. Catch-basin drain. 1 manhole. 2 catch-basins.	

## CITY PROPER.

Battery street, from Commercial street to North Ferry.	Aug.	6, 1925	Jan. 11, 1926			333 73
Cambridge street, from Charles street to Cornhill.						29,740 80
Oswego street overflow, from Albany street to 312 feet southeasterly.*						10,512 09
Tremont street, from Church street to Broadway.						7,492 02
Tremont street, from Arlington street to Stuart street; Corning street, from Tremont street to 90 feet southerly; Warren-ton street, from Tremont street to 130 feet westerly.	Aug.	22, 1925	May 6, 1926	A. Grande.	381.33 12" pipe, sanitary. 297.36 Catch-basin drain. 25 6 manholes. 1 catch-basin.	16,960 39
Liberty square and Battery-march street*....	May	19, 1926	June 24, 1926	A. Grande.	195.50 24" pipe, sanitary. 2 manholes.	7,523 35
Parkman street, from North Anderson street to Blossom street.*	May	24, 1926	July 3, 1926	V. Barletta.	239.15 15" pipe, sanitary. 233.35 24" pipe, surface. 8 Cast-iron pipe, surface. 4 manholes.	9,289 51
Albany street, from Oswego street to Troy street.						100 00
Public Alley No. 554, from Appleton street to Chandler street; Appleton street, from Tremont street to Public Alley No. 554.*	July	14, 1926	Aug. 30, 1926	A. Grande.	217.50 12" pipe, sanitary. 287.30 15" pipe, sanitary. 1 manhole.	9,594 70
Bowdoin street, from Beacon street to 100 feet northerly.	§					835 91
Cotting street, from Nashua street to Lowell street.					72 Catch-basin drain. 4 catch-basins.	
Arlington street, from St. James avenue to Columbus avenue.					237.04 12" pipe, surface. 2 manholes.	
Providence street, from Church street to St. James avenue.					230.12 12" pipe, surface. 1 manhole.	

\* Cost not complete.

§ Cancelled.

† See St. Joseph street, West Roxbury.

|| See Hollingsworth street, Dorchester.

‡ See new catch-basins, Roxbury.

## Recapitulation.

DISTRICT.	Linear Feet Sewers.	Linear Feet Catch-basin Drains.	Manholes.	Catch-basins.*	Amount Expended in 1926.
South Boston.....	723.70	14	5	1	\$7,422 48
East Boston.....		130		7	133 37
Charlestown.....					
Brighton.....	13,162.03	598	94	42	70,392 93
West Roxbury.....	30,042.57	1,216	188	44	271,191 87
Dorchester.....	17,164.42	962	119	66	128,624 67
Hyde Park.....	6,223.11	302.50	42	13	70,241 39
Roxbury.....	3,143.04	450	36	16	60,996 60
City proper.....	2,326.65	97	16	7	92,382 50

\* Includes drop inlets: East Boston, 2; Dorchester, 5; Hyde Park, 3; city proper, 2.

**New Catch-basins and Manholes Built by Day Labor and Contract  
January 1, 1926, to December 31, 1926.—Inclusive.**

DISTRICT.	Catch-basins.	Manholes.	Total Cost.
South Boston.....	8	4	\$5,127 12
East Boston.....	1	5	3,738 14
Charlestown.....	1	7	2,873 70
Brighton.....	6	1	2,345 60
West Roxbury.....	15	12	11,305 03
Dorchester.....	33	14	20,354 91
Hyde Park *.....	1	1	1,789 38
Roxbury.....	33	12	29,985 36
City proper.....	69	22	40,839 77
Totals.....	167	78	\$118,359 01

\* See Hyde Park Sewer Construction.



## SEWERAGE WORKS LOAN, 1926.

Engineers' salaries, general . . . . .	\$100,978 19
Amount charged to construction of sewers . . . . .	23,830 00
	<hr/>
	\$124,808 19
	<hr/>

## ENGINEERING EXPENSE.

Labor . . . . .	\$3,652 16
Teaming . . . . .	500 25
Borings . . . . .	1,827 84
Transportation . . . . .	2,339 25
Supplies, etc. . . . .	4,181 36
	<hr/>
	\$12,500 86
	<hr/>

## PUMPING STATION CONSTRUCTION.

Advertising . . . . .	\$16 50
Labor . . . . .	1,072 00
Contracts . . . . .	16,142 25
Materials, etc. . . . .	3,403 95
	<hr/>
	\$20,634 70
	<hr/>

## SUNDRIES.

Labor . . . . .	\$4,204 15
Material . . . . .	43,389 46
	<hr/>
	\$47,593 61
Less material charged to jobs . . . . .	41,134 97
	<hr/>
	\$6,458 64
	<hr/>

## COURT EXECUTIONS AND AWARDS ON ACCOUNT OF LAND-TAKING, ETC.

Frank Drinkwater, Bradlee street, Hyde Park . . . . .	\$4,236 94
W. J. Brady, Holden place, Hyde Park . . . . .	50 00
B. F. Cobleigh, Fowle street, West Roxbury . . . . .	80 00
	<hr/>
	\$4,366 94
	<hr/>

## EAST BOSTON PUMPING STATION AND OUTLET, EXPENDITURES, 1926.

Engineers' salaries . . . . .	\$1,796 58
	<hr/>

## Catch-basins in Charge of Sewer Service.

DISTRICT.	CATCH-BASIN DATA FOR TWELVE MONTHS ENDED DECEMBER 31, 1926.			TOTAL FOR WHOLE CITY IN CHARGE OF SEWER SERVICE.	
	Number Built or Rebuilt.	Number Abandoned or Removed.	Net Increase.	Previous Report to January 1, 1926.	Grand Total to January 1, 1927.
City proper.....	47	12	35	3,367	3,402
Roxbury.....	63	23	40	2,972	3,012
South Boston.....	9	6	3	1,278	1,281
East Boston.....	6	.....	6	919	925
Charlestown.....	1	.....	1	774	775
Brighton.....	48	.....	48	1,409	1,457
West Roxbury.....	57	2	55	2,349	2,404
Dorchester.....	85	6	79	3,698	3,777
Hyde Park.....	10	.....	10	400	410
Totals.....	326	49	277	17,166	17,443

Summary of Sewer Construction for Twelve Months Ended  
December 31, 1926.

DISTRICT.	Built by City by Contract or Day Labor.	Built by Private Parties.	Total Length Built.	
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>
City proper.....	2,326.65	.....	2,326.65	0.440
Roxbury.....	3,144.01	150.70	3,294.71	0.624
South Boston.....	723.70	.....	723.70	0.137
East Boston.....	—	—	—	—
Charlestown.....	—	—	—	—
Brighton.....	13,162.03	250.00	13,412.03	2.540
West Roxbury.....	30,214.57	593.00	30,807.57	5.835
Dorchester.....	17,164.42	3,015.85	20,180.27	3.822
Hyde Park.....	6,223.11	.....	6,223.11	1.179
Totals.....	72,958.49	4,009.55	76,968.04	14.577

**Net Increase in Length of Sewers Between January 1, 1926,  
and December 31, 1926.**

DISTRICTS.	Length of Sewers Built During the Twelve Months ended December 31, 1926.	Length of Sewers Re- built or Abandoned During the Twelve Months ended December 31, 1926.	Net Increase for Twelve Months Ended December 31, 1926.	
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>
City proper.....	2,326.65	1,249.66	1,076.99	0.204
Roxbury.....	3,294.71	1,093.45	2,201.26	0.416
South Boston.....	723.70	58.00	665.70	0.126
East Boston.....	—	—	—	—
Charlestown.....	—	—	—	—
Brighton.....	13,412.03	807.00	12,605.03	2.390
West Roxbury.....	30,807.57	.....	30,807.57	5.835
Dorchester.....	20,180.27	1,384.00	18,796.27	3.558
Hyde Park.....	6,223.11	.....	6,223.11	1.178
Totals.....	76,968.04	4,592.11	72,375.93	13.707
<i>Total Length of Sewers.</i>				<i>Miles.</i>
Common sewers and surface drains previous to January 1, 1926.....				996.62
Net increase of common sewers and surface drains between January 1, 1926, and December 31, 1926.....				13.70
Total common sewers and surface drains to December 31, 1926.....				1,010.32
Intercepting sewers connecting with Metropolitan sewers to December 31, 1926.....				* 6.81
Boston main drainage intercepting sewers to December 31, 1926.....				* 24.12
Grand total of common and intercepting sewers to December 31, 1926..				1,041.25
Total mileage of streets containing sewerage works to December 31, 1926,				612.15

\* No additional length during the year 1926.

**Summary of Sewer Construction for Five Years Previous to  
December 31, 1926.**

	1922.	1923.	1924.	1925.*	1926.
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>
Built by city by contract or day labor.....	63,156.54	41,076.39	50,708.89	75,241.99	72,958.49
Built by private parties. ....	1,641.30	2,609.10	4,566.88	10,296.40	4,009.55
Totals.....	64,797.84	43,685.49	55,275.77	85,538.39	76,968.04

\* 1925 fiscal year changed to end December 31. Data is for eleven (11) months only.

**Table of Approximate Quantities, Lifts and Duties at Calf Pasture Pumping Station  
from January 1 to December 31, 1926.**

MONTH.	Total Gallons Pumped.	Average per Day Gallons.	Minimum per Day Gallons.	Maximum per Day Gallons.	Average Lift, Feet.	Average Daily Foot- pound per Gallon of Oil.*
January.....	2,815,159,146	90,811,585	75,583,299	144,541,092	36.2	6,500,000
February.....	3,419,773,998	122,134,786	89,184,910	176,664,850	36.4	6,900,000
March.....	4,292,343,119	138,462,681	113,159,617	171,213,986	36.4	7,300,000
April.....	3,854,994,245	128,499,808	80,639,845	169,489,186	36.3	6,700,000
May.....	3,896,112,171	125,681,038	104,919,650	180,032,988	36.2	7,400,000
June.....	3,379,115,981	112,637,199	124,568,343	129,018,495	35.8	7,800,000
July.....	3,625,537,621	116,952,826	111,179,988	127,607,592	35.7	6,600,000
August.....	3,373,798,405	108,832,207	84,338,010	138,002,190	35.9	7,900,000
September.....	3,121,583,727	104,052,791	78,461,188	136,178,031	35.9	7,300,000
October.....	3,236,816,381	104,413,432	74,324,117	162,384,139	35.9	7,700,000
November.....	3,144,905,616	104,830,185	82,714,356	152,389,281	35.7	7,500,000
December.....	3,628,667,862	117,053,802	73,914,437	126,594,792	35.8	5,900,000
Totals.....	41,788,808,272	1,374,362,340	.....	.....	432.2	85,500,000
Averages.....	114,489,886	114,530,195	.....	.....	36	7,100,000

NOTE.— 29,595,216,376 gallons pumped, 3-4-5 pumps; boilers, oil burning, used 1,190,351 gallons.  
12,193,591,896 gallons pumped, 1-2 pumps; electric driven, 894,600 K. W. hours.

\* Turbines not included in duty.

**Cost of Pumping at Calf Pasture Pumping Station January 1,  
1926, to December 31, 1926.**

ITEMS.	Cost.	Cost per Million Foot Gallons.
Labor.....	\$77,439 30	\$9.03092
Fuel oil.....	58,327 19	.05487
Power for pumping.....	28,181 85	.06420
Oils and waste.....	3,350 00	.00134
Rubber valves and packing.....	3,934 22	.00117
Miscellaneous supplies and renewals.....	13,932 96	.00556
Totals.....	\$185,165 52	\$9.15806
Labor at screens.....	7,510 00	.00220
Connecting motors to turbines.....	29,408 55	

*Amount of Sludge Received and Removed from Deposit Sewers  
from January 1, 1926, to December 31, 1926, Inclusive.*

Sludge in sewers January 1, 1926 . . . . .	725 cubic yards.		
Received during the year . . . . .	3,067	"	"
Total . . . . .	3,792	"	"
Removed during the year . . . . .	1,600	"	"
Sludge in sewers January 1, 1927 . . . . .	2,192	"	"

**Amount of Refuse Removed from Gatehouse at Calf Pasture  
Pumping Station January 1, 1926, to December 31, 1926.**

MONTH.	Number Cheeses.	Weight (Pounds).
January.....	303	73,023
February.....	245	59,045
March.....	250	60,250
April.....	247	59,527
May.....	230	55,430
June.....	178	42,898
July.....	188	45,308
August.....	204	49,164
September.....	182	43,862
October.....	199	47,959
November.....	204	49,164
December.....	312	75,192
Totals.....	2,742	660,822

Cheeses average 241 pounds.

## APPENDIX E.

REPORT OF THE DIVISION ENGINEER OF  
THE WATER DIVISION.

BOSTON, January 1, 1927.

*To the Commissioner of Public Works.*

The following report of the operations, income and expenditures of the Water Division for the year ending December 31, 1926, is respectfully submitted.

During the year a total length of 10.8 miles of 6-inch to 16-inch water pipe was laid, occasioned by building construction and the development of property principally in West Roxbury, Dorchester and Brighton. This length exceeds the total length laid in 1925 by 3 miles; again the greatest volume of work was done in West Roxbury; in this district 6.4 miles of water pipe was laid.

The contract for laying 48-inch water pipe in Commonwealth avenue, Public Garden and the Boston Common started in 1925, was completed in June and the completion of this important pipe line furnishes an additional supply to the low service system to the city. The 16-inch main started in 1925, in the Charles River Reservation, from North Harvard street, was completed by the laying of 3,070 linear feet and connecting to the water main in Western avenue. Conditions prevented the relaying of small-sized water pipes with larger sizes to the same degree as in former years; during the year only 6,700 linear feet of 4-inch and 6-inch pipes were relaid with 8-inch and 12-inch pipes to improve the fire protection and to furnish the quantity of water demanded by the modern fire engines.

The greater lengths relaid were

## CITY PROPER.

Pitts street, between Green and Merrimac streets, 630 linear feet of 6-inch relaid with 12-inch pipe.

## SOUTH BOSTON.

Baxter street, between C and E streets, 1,076 linear feet of 6-inch relaid with 8-inch pipe.

## ROXBURY.

Circuit street, between Washington street and Walnut avenue, 1,935 linear feet of 6-inch relaid with 12-inch pipe.

Dennison street, from Walnut avenue, 449 linear feet of 6-inch relaid with 12-inch pipe.

## BRIGHTON.

Etna street, between North Beacon and Elmira streets, 1,175 linear feet of 6-inch relaid with 12-inch pipe.

## HYDE PARK.

Osceola street, between River street and Belnel road, 812 linear feet of 4-inch relaid with 8-inch pipe.

To care for the numerous main pipe extension applications twenty-five contracts were awarded at various intervals during the working season. Two thousand one hundred thirty-one service pipes varying in size from  $\frac{5}{8}$  inch to 12 inches were installed during the year and of this number 171 were 4-inch pipes laid to furnish sprinkler protection.

The regular work of the Distribution Branch, consisting of leak repairs, establishing fire and service pipes, freeing stoppages, shutting off and letting on water, etc., was performed in such a manner and at such times as to a minimum of delay or discomfort to applicants for water, to water takers, and to the traveling public.

In compliance with the Legislative Acts of 1907, relative to metering of water services, 1,186 meters were set on old services in existence previous to 1907 and 1,959 meters were set on new service pipes, a total of 3,145 meters. On December 31, 1926, the total number of meters in service was 91,594 and there remains to meter about 2,600 miscellaneous houses in various sections of the city. With 97 per cent of Boston metered the work of the Meter Branch is increasing in proportion and in addition to the meters

installed as above, 8,399 meters have been changed and reset and 1,704 meters have been repaired in service during the year.

The collections for all purposes in the Water Division during the year was \$4,000,989.17 and the statute making water bills a lien on real estate was an important factor in prompt payments of water bills, etc.

Respectfully submitted,

C. J. CARVEN,  
*Division Engineer.*



## FINANCIAL STATEMENT.

## RECEIPTS.

Sales of water . . . . .	\$3,790,408 27
Service pipes and repairs . . . . .	121,491 04
Fire, motor and elevator pipes, new and repairs . . . . .	54,816 33
Labor and materials for miscellaneous work . . . . .	14,399 15
Fees for summonses . . . . .	6,152 18
Sales of merchandise . . . . .	3,539 73
Interest on bank deposits . . . . .	2,628 01
Relocating mains . . . . .	2,402 95
Relocating and repairing hydrants . . . . .	1,887 27
Shutting off and letting on water . . . . .	1,028 00
Accrued interest on water bonds . . . . .	833 33
Board of horses . . . . .	462 00
Testing meters . . . . .	302 00
Rent of conduit, Congress street (2 years) . . . . .	200 00
Entrance main pipe . . . . .	125 00
Premium on water bonds . . . . .	93 00
Rent of air compressor . . . . .	75 45
Sale of junk . . . . .	60 00
Damages to automobiles . . . . .	48 27
Refund on bill . . . . .	28 00
Sales of gasoline . . . . .	5 04
Refund on automobile registration . . . . .	2 50
Delivering water . . . . .	1 65

Gross income . . . . .	\$4,000,989 17
Transferred to City Loan account to pay Hyde Park Water Debt . . . . .	\$16,000 00
Transferred to appropriation for Service Mains and Relaying Mains . . . . .	90,000 00
Transferred to credit of Collecting Depart- ment . . . . .	55,622 61
	<u>161,622 61</u>

Net income . . . . .	\$3,829,366 56
Balance January 1, 1926 . . . . .	16,177 21
	<u>\$3,855,543 77</u>

## EXPENDITURES.

Current expenses and extensions . . . . .	\$1,511,407 58
Interest on water loans . . . . .	45,280 00
Refunded water rates . . . . .	343 50
Metropolitan water assessment . . . . .	2,090,598 07
Serial loans . . . . .	180,000 00

Total expenditures 1926 . . . . .	\$3,827,629 15
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Balance unexpended December 31, 1926 . . . . .	<u>\$27,914 62</u>
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## APPROPRIATION FOR SERVICE MAINS AND RELAYING MAINS.

Balance unexpended December 31, 1925 . . . . .	\$930 11
Appropriation from water income . . . . .	90,000 00

Total appropriation 1926 . . . . .	\$90,930 11
Expended during fiscal year 1926 . . . . .	<u>83,065 12</u>

Balance unexpended December 31, 1926 . . . . .	<u>\$7,864 99</u>
--	-------------------

## APPROPRIATION FOR EXTENSION OF WATER MAINS (LOAN).

Balance unexpended December 31, 1925 . . . .	\$284,821 90
Loan issued in 1926 (authorized July 13, 1926) . . . .	300,000 00
Total appropriation 1926 . . . . .	<u>\$584,821 90</u>
Expended during the fiscal year 1926 . . . . .	346,255 78
Balance unexpended December 31, 1926 . . . . .	<u>\$238,566 12</u>

## APPROPRIATION FOR LAYING AND RELAYING STREET WATER MAINS (LOAN).

Balance unexpended December 31, 1925 . . . . .	\$73,910 79
Expended during fiscal year 1926 . . . . .	54,085 95
Balance unexpended December 31, 1926 . . . . .	<u>\$19,824 84</u>

Details of expenditures under appropriation for current expenses for the fiscal year ending December 31, 1926.

## EXTENSION.

Construction of new mains . . . . .	\$41,777 41
Replacement of old mains . . . . .	9,695 70
New hydrants . . . . .	2,491 69
High-pressure fire mains . . . . .	347 64
Total extension . . . . .	<u>\$54,312 44</u>

## MAINTENANCE.

Office and Engineering Branch:	
Salaries and wages . . . . .	\$49,634 96
Traveling expenses . . . . .	828 73
Printing, stationery and postage . . . . .	2,606 50
Miscellaneous . . . . .	504 66
	<u>\$53,624 85</u>
Income Branch:	
Salaries and wages . . . . .	\$151,700 49
Traveling expenses . . . . .	2,217 92
Printing, stationery and postage . . . . .	5,432 30
Miscellaneous . . . . .	1,600 35
	<u>160,951 06</u>
Distribution Branch:	
Salaries and wages . . . . .	\$44,291 38
Traveling expenses . . . . .	445 22
Printing, stationery and postage . . . . .	1,661 63
Miscellaneous . . . . .	2,493 83
	<u>48,892 06</u>
Meter Branch:	
Salaries and wages . . . . .	\$18,473 53
Traveling expenses . . . . .	36 80
New meters and setting . . . . .	37,674 79
Meters, repairing, resetting, testing, etc. . . . .	37,543 58
	<u>\$93,728 70</u>
Carried forward . . . . .	\$263,467 97
	<u>\$54,312 44</u>

<i>Brought forward</i>	\$93,728 70	\$263,467 97	\$54,312 44
Printing, stationery and postage	399 25		
Holiday	5,182 65		
Shops	17,238 51		
Laborers' vacations	1,472 77		
Miscellaneous	332 17		
		118,354 05	
Inspection of castings		7,476 42	
Yards		96,397 03	
Damages		9,366 19	
Shops		24,785 91	
Stables		11,085 55	
Tools and repairs		19,717 50	
Main pipe, relocation		10,374 71	
Main pipe, repairs		74,867 93	
Service pipes, new		135,435 96	
Service pipes, changes		12,714 30	
Service pipe, repairs		118,096 09	
Hydrant, changes		54,035 29	
Hydrant, repairs		89,274 08	
Water posts, new		72 88	
Water posts, changes		409 15	
Water posts, repairs		524 52	
Fountains, new		383 28	
Fountains, changes		251 60	
Fountains, repairs		3,759 03	
Fountains, on account of ice		1,835 64	
Holiday		57,349 87	
Investigations		641 86	
Off and on water		18,840 72	
Accommodation work		4,127 78	
Work, on account of office and engineers,		2,101 71	
Work on account of Income Branch		549 29	
Work on account of new meters		6,554 12	
Work on account of Meter Branch		387 95	
Work on account of meter repairs		8,592 85	
Waste detection and prevention		189 23	
Launch, repairs and supplies		224 97	
Veterans' pensions		6,980 95	
Laborers' pensions		9,649 28	
Laborers' vacations		17,908 09	
Workmen's compensation		4,657 45	
Emergency service		66,655 27	
Garage		7,596 33	
Medical inspection		600 00	
Light and power		1,731 59	
High Pressure Fire Service		4,371 02	
Veterinary's services		125 00	
Harbor service		3,659 85	
Automobiles		41,713 95	
Regulating boxes		6,339 56	
Expert services		385 80	
Taxes		293 50	
Oil (for heating)		3,030 64	
Total maintenance			1,327,943 71
Merchandise sold and stock consigned to junk			3,687 44
Stock purchased			357,120 43
<i>Carried forward</i>			\$1,743,064 02

Brought forward . . . . .	\$1,743,064 02
Less stock used and disposed of . . . . .	231,656 44
Total expenditures from appropriation for Water Service . . . . .	<u>\$1,511,407 58</u>

Details of expenditures under appropriation for Service Mains and Relaying Mains for the fiscal year ending December 31, 1926. (From revenue.)

EXTENSION.	
Construction of new mains . . . . .	\$48,348 86
Replacement of old mains . . . . .	3,147 60
New hydrants . . . . .	5,601 08
Total extension . . . . .	\$57,097 54
MAINTENANCE.	
Yards . . . . .	\$205 50
Main pipe, repairs . . . . .	4,909 23
Service pipes, new . . . . .	9,858 98
Service pipe, changes . . . . .	817 63
Service pipe, repairs . . . . .	6,246 16
Hydrant, changes . . . . .	1,627 28
Hydrant, repairs . . . . .	1,246 46
Waterposts, changes . . . . .	12 00
Fountain repairs . . . . .	9 34
Investigations . . . . .	169 41
Off and on water . . . . .	534 66
Work on account of new meters . . . . .	54 25
Work on account of meter repairs . . . . .	276 68
Total maintenance . . . . .	25,967 58
Total expenditures from appropriation for Service Mains and Relaying Mains . . . . .	<u>\$83,065 12</u>

Details of expenditures under appropriation for Extension of Water Mains for the fiscal year ending December 31, 1926. (From loan.)

Construction of new mains . . . . .	\$317,944 86
Service pipes, new . . . . .	1,061 19
High Pressure Fire Service Mains . . . . .	56,384 11
Stock purchased . . . . .	174,189 18
	\$549,579 34
Less stock used . . . . .	203,323 56
Total expenditures from appropriation for Extension of Water Mains . . . . .	<u>\$346,255 78</u>

Details of expenditures under appropriation for Laying and Relaying Street Water Mains for the fiscal year ending December 31, 1926. (From loan.)

# Receipts and Expenditures, 1917-26.

## Receipts

	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.	1925. (11 months.)	1926.
Sales of water.....	\$2,872,867 89	\$2,998,922 73	\$3,244,542 57	\$3,364,937 04	\$3,407,579 24	\$3,694,448 30	\$3,813,571 42	\$3,748,575 28	\$3,079,830 74	\$3,790,408 27
Other receipts.....	79,223 75	50,529 81	54,111 33	64,598 71	65,479 69	97,499 70	97,164 30	182,317 83	161,277 84	210,580 90
	\$2,952,091 64	\$3,049,452 54	\$3,298,653 90	\$3,429,535 75	\$3,473,058 93	\$3,791,948 00	\$3,910,735 72	\$3,930,893 11	\$3,241,108 58	\$4,000,989 17
Transfer by City Auditor.....	* 4,826 39									
Loan, extension of water mains.....									800,000 00	300,000 00
Loan, laying and relaying street water mains.....									100,000 00	
	\$2,956,918 03	\$3,049,452 45	\$3,298,653 90	\$3,429,535 75	\$3,473,058 93	\$3,791,948 00	\$3,910,735 72	\$3,930,893 11	\$4,141,108 58	\$4,300,989 17
Balance, beginning of year.....	\$87,116 19	\$25,087 31	† \$3,487 83			† \$43,733 95	† \$200,000 00	\$24,141 18	\$26,737 35	\$375,840 01
Balance, end of year.....	† 25,087 31	† 3,487 83			\$43,733 95		24,141 18	26,737 35	‡ 375,840 01	‡ 294,170 57
Transferred to Collecting Department.....	27,264 14	26,165 88	30,317 74	\$33,570 54	34,596 76	46,425 42	50,522 49	58,653 86	51,890 79	55,622 61
Transferred to city loan account.....	16,000 00	124,263 90	390,095 22	209,958 26	161,000 00	250,233 01	113,570 40	16,000 00	10,000 00	16,000 00
Transferred to appropriation for service mains and relaying mains.....	35,000 00	30,000 00				200,000 00	208,180 00	217,638 84	50,123 45	90,000 00
Transferred to appropriation for High Pressure Fire Service.....						23,000 00				
Transferred to appropriation for High Pressure Fire system extension.....						100,000 00	410,000 00	175,000 00		

## Expenditures.

	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.	1925. (11 months.)	1926.
Current expenses.....	\$1,045,543 65	\$1,055,842 87	\$1,010,634 32	\$1,253,196 33	\$1,232,418 76	\$1,396,212 50	\$1,229,573 73	\$1,608,320 10	\$1,309,163 72	\$1,511,407 58
Service mains and relaying mains.....	97,058 88	51,599 48	3,487 83				384,038 82	215,042 67	75,930 69	83,065 12
Metropolitan water assessment.....	1,752,094 76	1,741,008 84	1,805,104 07	1,885,924 91	1,958,528 33	1,784,257 21	1,872,413 17	1,829,973 63	1,793,425 93	2,090,598 07
Interest.....	80,494 28	71,268 00	61,162 73	45,874 33	41,852 66	34,449 49	25,534 00	24,680 00	9,800 00	45,280 00
Refunded water rates.....	611 20	962 99	1,359 82	1,041 38	928 47	1,104 32	941 93	626 68	527 48	343 50
Loan, extension of water mains.....									515,178 10	346,255 78
Loan, laying and relaying street water mains.....									26,089 21	54,085 95
On account of serial loans.....										180,000 00
	\$2,975,712 77	\$2,929,682 18	\$2,881,728 77	\$3,186,096 95	\$3,233,728 22	\$3,216,023 52	\$3,512,501 65	\$3,678,643 08	\$3,730,115 13	\$4,311,036 00

\* Transfer from Reserve Fund.

† Balance of appropriation for service mains and relaying mains.

‡ Amount expended for current expenses and extensions, there being one appropriation only.

§ \$27,914.62 of this amount is balance of appropriation for "Water Service Revenue"; \$7,864.69 of this amount is balance of appropriation for "Service Mains and Relaying Mains Revenue"; \$238,566.12 of this amount is balance of appropriation for "Extension of Water Mains (Loan)"; \$19,824.84 of this amount is balance of appropriation for "Laying and Relaying Street Water Mains (Loan)."



Construction of new mains . . . . .	\$16,579 09
Replacement of old mains . . . . .	36,640 68
Service pipes, new . . . . .	866 18

Total expenditures from appropriation for Laying and Relaying Street Water Mains . . . . .	<u>\$54,085 95</u>
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## APPROPRIATION FOR CAMBRIDGE AND COURT STREETS.

Laying and relaying water pipes on account of street widening . . . . .	<u>\$4,912 68</u>
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## APPROPRIATION FOR MORTON STREET IMPROVEMENT.

Laying and relaying water pipes on account of street widening . . . . .	<u>\$1,223 09</u>
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## APPROPRIATION FOR TREMONT STREET IMPROVEMENT.

Laying and relaying water pipes on account of street widening . . . . .	<u>\$272 70</u>
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## RESERVE FUND.

Expended for ice furnished at drinking fountains . . . . .	<u>\$5,810 47</u>
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COST OF CONSTRUCTION AND CONDITION  
OF WATER DEBT.

Cost of construction to December 31, 1926 . . . . .	\$20,710,574 44
Cost of construction to December 31, 1925 . . . . .	20,169,684 35

Increase during the year . . . . .	<u>\$540,890 09</u>
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Outstanding loans December 31, 1926 . . . . .	\$1,260,000 00
Outstanding loans December 31, 1925 . . . . .	1,140,000 00

Increase during the year . . . . .	<u>\$120,000 00</u>
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## Cost of existing works December 31, 1926:

Pipe yards and buildings . . . . .	\$94,832 16
Engineering expenses . . . . .	57,873 58
Distribution System (additions during year, \$540,886 09 *) . . . . .	20,089,864 70
Hyde Park Water Works . . . . .	468,000 00
	<u>\$20,710,570 44</u>

High Pressure Fire System (additions during year, \$350) . . . . .	<u>\$2,062,155 92</u>
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\* Includes \$56,731.75 High Pressure Fire System Extension.

## INCOME BRANCH.

Table 1.—Statement of Each Year's Water Rates, 1912 to 1926, as of December 31, 1926.

ACCOUNT OF YEAR.	Amount, Assessed.	Amount Abated.	Amount Collected.	Outstanding.
1912.....	\$3,001,771 87	\$49,937 87	\$2,943,402 48	\$8,431 52
1913.....	3,004,331 52	42,088 77	2,954,183 62	8,059 13
1914.....	3,034,885 83	41,544 93	2,970,232 82	23,108 08
1915.....	2,960,797 45	15,084 24	2,903,015 36	42,697 85
1916.....	3,130,590 53	16,402 64	3,062,818 84	51,369 05
1917.....	3,120,878 86	19,287 29	3,043,525 11	58,066 46
1918.....	3,359,714 95	98,624 99	3,197,299 43	63,790 53
1919.....	3,210,139 91	27,111 37	3,114,335 15	68,693 39
1920.....	3,503,669 88	62,017 25	3,380,090 63	61,562 00
1921.....	3,615,654 71	34,119 41	3,524,431 67	57,103 63
1922.....	3,612,706 71	31,450 66	3,521,642 99	59,613 06
1923.....	3,817,073 92	33,942 03	3,736,272 90	46,858 99
1924.....	3,832,386 22	40,019 54	3,775,706 60	16,660 08
1925.....	3,875,331 57	35,574 52	3,815,827 95	23,929 10
1926.....	3,907,345 25	25,226 86	2,786,036 59	1,096,081 80

Table No. II.—Elevator, Motor and Fire Services.

Elevator service installed .....	—
Elevator services abandoned.....	2
Total number of elevator services in use December 31, 1926.....	505
Fire pipes installed.....	176
Fire services abandoned.....	1
Total number of fire services in use December 31, 1926.....	2,839
Number of motor services in use December 31, 1926.....	96
Number of motor services metered.....	20



## METER BRANCH.

Table No. 1.—Statement of Work During Year 1926.

MAKE.	New Sets.	Discontinued.	CHANGES.		Tested.	Repaired in Shop.	Resets.	Repaired in Service.
			Out.	In.				
Hersey rotary.....	2	4	103	33	140	42	.....	5
Crown.....	2	16	162	45	223	21	2	25
Watch dog.....	2,534	91	931	2,824	3,766	971	166	452
Hersey disc.....	313	333	3,299	3,175	6,807	3,812	145	436
King.....	95	87	1,588	584	2,259	904	42	274
Worthington disc.....	134	90	1,466	976	2,532	1,243	43	448
Nash.....	6	81	34	121	45	.....	4	
Lambert.....	10	6	65	47	118	125	1	4
Empire.....			8	.....	8	—	—	—
American.....	20	15	140	166	321	237	8	26
Keystone.....		2	21	9	32	56	—	—
Trident.....	9	7	27	2	36	61	2	4
Hersey detector.....	9	2	3	4	9	.....	.....	20
Hersey compound.....		1	.....	2	3	—	—	—
Trident protectus.....	1	1	.....	.....	1	—	—	—
Federal.....	16	7	94	88	189	58	1	6
Standard.....			1	.....	1	—	—	—
Totals.....	3,145	668	7,989	7,989	16,566	7,575	410	1,704

Table No. II.

*Meters in Services December 31, 1926.*

MAKE.	DIAMETER IN INCHES.										Totals.
	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	2	3	4	6	8	10	
Hersey disc.....	42,985	3,188	1,392	707	257	91	67	5	.....	.....	48,692
Hersey rotary. ....	338	300	187	149	161	55	23	15	.....	.....	1,228
Crown.....	367	459	216	151	135	48	43	8	.....	.....	1,427
Nash.....	349	177	93	30	34	2	.....	.....	.....	.....	685
Lambert.....	285	104	64	17	17	.....	4	.....	.....	.....	491
Trident.....	167	5	3	4	3	15	5	2	.....	.....	204
Hersey detector.....	.....	.....	.....	.....	.....	6	18	32	13	17	86
Worthington.....	.....	8	25	1	8	11	1	.....	.....	.....	54
Worthington disc... ..	9,279	31	13	39	70	58	.....	.....	.....	.....	9,490
Keystone.....	170	171	22	2	1	7	.....	.....	.....	.....	373
Metropolitan.....	.....	12	1	.....	.....	.....	.....	.....	.....	.....	13
American.....	215	460	.....	.....	.....	.....	.....	.....	.....	.....	675
Empire.....	105	.....	.....	.....	.....	.....	.....	.....	.....	.....	105
Protectus.....	.....	.....	.....	.....	.....	.....	2	1	2	2	7
Gem.....	.....	.....	.....	.....	1	.....	.....	2	.....	.....	3
Standard.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Watch dog.....	14,158	432	583	290	163	95	16	.....	.....	.....	15,737
Thomson.....	6	2	.....	.....	.....	.....	.....	.....	.....	.....	8
King.....	10,434	302	119	67	53	.....	.....	.....	.....	.....	10,975
Hersey compound.....	.....	.....	.....	.....	.....	.....	3	7	.....	.....	10
Federal.....	1,327	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,327
Totals.....	80,189	5,651	2,718	1,457	903	388	182	72	15	19	91,594

Table No. I.

Showing Length of Water Pipes and Connections Owned and Operated by the Public Works Department, Water Division (Water Service), and Number of Valves in Same December 31, 1926.

DIAMETER OF PIPES IN INCHES.																
	48	42	40	36	30	24	20	16	14	12	10	8	6	4	3	2
Length owned and operated December 31, 1925.....	16,219	15,980	16,081	43,535	93,697	81,283	86,520	285,113	5,041	1,582,930	443,221	919,603	1,134,961	85,749	9,442	6,773
Gate valves in same.....	10	4	9	20	59	76	72	648	19	4,166	1,479	3,152	3,617	568	16	17
Air valves in same.....	24	5	9	34	100	74	43	74	.....	48	1	3	1	.....	.....	.....
Blow-offs in same.....	3	4	3	11	34	28	46	68	.....	161	45	123	126	56	7	2
Length laid and relaid during 1926.....	1,579	.....	.....	109	.....	137	.....	3,050	.....	23,931	1,317	36,834	1,360	357	.....	.....
Gate valves in same.....	6	.....	.....	.....	.....	.....	.....	9	.....	74	8	106	8	2	.....	.....
Air valves in same.....	4	.....	1	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Blow-offs in same.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Length abandoned during 1926.....	.....	.....	.....	.....	1,878	6	.....	43	.....	1,764	.....	.....	.....	.....	.....	.....
Gate valves in same.....	.....	.....	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Blow-offs in same.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Air valves in same.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Length owned and operated December 31, 1926.....	17,798	15,980	16,081	43,644	91,819	81,414	86,520	288,120	5,041	1,605,097	441,538	955,231	1,128,826	85,357	9,442	6,773
Gate valves in same.....	16	4	9	20	57	76	72	655	19	4,233	1,485	3,249	3,599	569	16	17
Air valves in same.....	28	5	9	34	108	75	43	75	.....	.....	48	1	3	1	.....	.....
Blow-offs in same.....	3	4	3	11	34	28	46	66	.....	164	44	122	129	58	7	2
4,826,148 13,932 426 717 68,674 213 8 22 13,141 49 18 3 4,881,681 14,096 431 721																

Table No. II.

*Total Number of Hydrants in System December 31, 1926.*

	Lowry.	Boston Lowry.	Boston Post.	Ordinary Post.	Bechelder and Finneran Post.	Ludlow Post.	Chapman Post.	Coffin Post.	Matthews Post.	Boston.	Totals.
City proper (public).....	475	36	507	261	185	.....	.....	.....	.....	53	1,517
"    (private).....	4	.....	9	6	.....	.....	.....	.....	.....	39	58
Roxbury (public).....	266	52	434	385	369	.....	.....	.....	.....	15	1,521
"    (private).....	2	1	3	4	.....	.....	.....	.....	.....	10	20
West Roxbury (public).....	21	158	492	954	305	.....	.....	.....	.....	13	1,943
"    (private).....	.....	.....	.....	15	1	.....	.....	.....	.....	1	17
Brighton (public).....	19	43	276	509	129	.....	.....	.....	.....	12	988
"    (private).....	.....	.....	.....	8	.....	.....	.....	.....	.....	2	10
Dorchester (public).....	200	138	686	1,168	220	.....	.....	.....	.....	17	2,424
"    (private).....	.....	1	8	.....	2	.....	.....	.....	.....	4	15
South Boston (public).....	106	20	255	207	62	.....	.....	.....	.....	14	664
"    (private).....	3	.....	.....	15	.....	.....	.....	.....	.....	27	45
East Boston (private).....	27	15	209	230	48	.....	.....	.....	.....	6	535
"    (private).....	8	1	.....	9	.....	.....	.....	.....	.....	25	43
Charlestown (public).....	79	34	141	64	27	.....	.....	.....	.....	2	347
"    (private).....	13	1	.....	37	.....	.....	.....	.....	.....	5	56
Hyde Park (public).....	.....	.....	26	328	47	7	125	1	.....	.....	534
"    (private).....	.....	.....	.....	.....	.....	13	55	.....	4	.....	72
Deer Island (private).....	.....	.....	1	19	.....	.....	.....	.....	.....	.....	20
Long Island (private).....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	6
Thompson's Island (private).....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2
Gallop's Island (private).....	.....	.....	.....	3	.....	.....	.....	.....	.....	1	4
Rainsford Island (private).....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	3
Quincy.....	.....	.....	.....	9	.....	.....	.....	.....	.....	.....	9
Total number (public).....	1,193	496	3,026	4,101	1,392	7	125	1	.....	132	10,473
Total number (private and suburban).....	30	4	21	136	3	13	55	.....	4	114	380

Table No. III.

*Total Number and Aggregate Length of Service Pipes of Various Sizes  
Connected With System December 31, 1926.*

Size.	Total Number.	Aggregate Length in Linear Feet.
$\frac{1}{2}$ -inch.....	6,908	158,251
$\frac{3}{8}$ -inch.....	90,246	2,491,274
$\frac{1}{4}$ -inch.....	3,623	124,366
1-inch.....	5,735	203,864
1 $\frac{1}{4}$ -inch.....	610	17,602
1 $\frac{1}{2}$ -inch.....	1,784	53,241
2-inch.....	2,354	71,230
2 $\frac{1}{2}$ -inch.....	12	267
3-inch.....	1,042	29,006
4-inch.....	3,366	88,655
6-inch.....	214	24,091
8-inch.....	70	4,568
10-inch.....	15	1,771
12-inch.....	19	4,002
16-inch.....	5	448
Totals.....	* 116,003	3,272,636

\* The completion of the metering of all services to within 5 per cent of the total number of live service pipes discloses the fact that the total number of service pipes will not exceed 90,000. The large discrepancy is found to be due to the fact that previous to 1880 no deductions were made for pipes abandoned, etc.

# Cost of Extension of Main Pipe.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Materials, etc.	Cost of Labor.	Cost of Inspec- tion.	Total Cost.	Remarks.
Lincoln place.....	From 74 Lincoln street.....	Brighton.	4	188	\$333 84	\$294 10	\$1 52	\$629 46	Private, gravel.
West Rutland street...	At Carleton street.....	City Proper.	6	21	\$304 36	\$111 25	\$10 86	\$426 47	Public, gravel and sand.
Carleton street.....	Between Greenwich park and West Rutland street.	City Proper.	6	128	125 52	167 62	10 86	304 00	Public, gravel.
Copenger street .....	From Parker Hill avenue.....	Roxbury.	6	188	304 89	188 00	12 14	505 03	Private, gravel.
Richards terrace.....	From Wentworth street.....	Dorchester.	6	159	278 40	181 17	23 00	482 57	Private, clay.
Francis place.....	From Rowe street.....	West Roxbury.	6	189	299 63	185 31	14 38	499 32	Private, gravel and clay.
Weller terrace.....	From Weller street.....	West Roxbury.	6	27	49 57	25 65	5 75	80 97	Private, filled land.
Weller park.....	From Welles street.....	West Roxbury.	6	27	42 63	25 65	5 75	74 03	Private, filled land.
Crescent street.....	Between Roland and Cambridge streets.	Charlestown.	6	197	179 91	265 00	27 15	472 06	Public, ash filled.
Providence street.....	Into Hyde Park water yard.....	Hyde Park.	6	142	353 83	58 25	.....	412 08	Private, gravel.
	Totals.....	.....	6	1,078	\$1,938 74	\$1,207 90	\$109 89	\$3,256 53	
Huntington avenue...	Between Norway and West Newton streets.	City Proper.	8	366	\$618 02	\$648 48	\$25 88	\$1,292 38	Public, granolithic.
United States Air Port...	In Aviation Field.....	East Boston.	8	1,554	3,671 89	5,114 10	104 21	8,890 20	Private, mud filling.
Sunset street.....	Between Parker Hill avenue and Eldora street.	Roxbury.	8	175	367 89	267 20	9 50	644 59	Public, gravel and sand.
St. Peter street.....	Between Boylston and Paul Gore streets.	Roxbury.	8	227	434 68	308 10	24 28	767 06	Private, gravel.

Codman street.....	Between Oakridge and Washington streets.	Dorchester.	8	643	1,224 21	723 05	28 75	1,976 01	Public, clay.
Oakridge street.....	At Codman street.....	Dorchester.	8	28	67 62	29 40	2 88	99 90	Public, clay.
Codman Hill avenue.....	Between Washington street and Milton avenue.	Dorchester.	8	1,338	2,639 81	1,655 87	74 03	4,369 71	Private, clay.
Babson street.....	Between Mildred avenue and Railroad.	Dorchester.	8	136	447 21	210 00	11 50	668 71	Public, clay.
Mt. Bowdoin terrace....	From Eldon street.....	Dorchester.	8	143	410 21	258 42	7 47	676 10	Private, sand and gravel.
Holborn street.....	Between Selden and Delhi streets....	Dorchester.	8	304	771 50	486 59	38 81	1,296 90	Private, rock and clay.
Cheverus road.....	From Dorchester avenue.....	Dorchester.	8	382	803 36	822 70	38 50	1,664 56	Private, sand and gravel.
Fairfax terrace.....	From Fairfax street.....	Dorchester.	8	270	570 71	494 02	27 32	1,092 05	Private, gravel.
Mildred avenue.....	Opposite 44 Mildred avenue.....	Dorchester.	8	13	153 97	90 00	3 79	247 76	Private, clay.
Mercier avenue.....	From Dorchester avenue.....	Dorchester.	8	470	1,210 15	674 10	28 75	1,913 00	Private, clay.
Claymont terrace.....	Between Queen street and Neponset avenue.	Dorchester.	8	243	470 12	362 23	33 26	865 61	Public, sand.
Cranston road.....	From Church street.....	Dorchester.	8	239	517 31	268 00	17 25	802 56	Private, sand.
Fessenden street.....	Between Blue Hill avenue and Norfolk street.	Dorchester.	8	170	254 86	425 46	38 70	719 02	Public, rock.
Baker avenue.....	Between Quincy and Bodwell streets.	Dorchester.	8	272	409 47	298 60	24 28	732 35	Private, gravel.
Milton street.....	From Whitredge street.....	Dorchester.	8	382	667 31	471 60	15 17	1,154 08	Private, gravel.
Westmore road.....	Between Gilmer and Hazleton streets.	Dorchester.	8	314	635 01	414 96	28 75	1,078 72	Public, clay.
Hosmer street.....	From Norfolk street.....	Dorchester.	8	54	81 58	225 18	27 50	334 26	Private, rock and clay.
Myrtlebank avenue....	Between Marsh and Milton streets....	Dorchester.	8	611	1,203 00	643 00	19 73	1,865 73	Private, gravel.
<i>Carried forward.....</i>			8	8,334	\$17,629 89	\$14,891 06	\$630 31	\$33,151 26	

**Cost of Extension of Main Pipe.—Continued.**

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Materials, etc.	Cost of Labor.	Cost of Inspec- tion.	Total Cost.	Remarks.
	<i>Brought forward.</i> .....			8,334	\$17,029 89	\$14,891 06	\$630 31	\$33,151 26	
Ashton street.....	Between Callender and Arbutus streets.	Dorchester.	8	410	893 35	528 15	66 74	1,488 24	Private, ashes and clay.
Outlook road.....	From Ormond street.....	Dorchester.	8	529	1,184 82	617 34	34 50	1,806 66	Private, clay.
Augustus avenue.....	Between Clarendon and Metropoli- tan avenue.	Dorchester.	8	189	481 06	217 85	15 09	717 00	Private, clay.
Clarendon avenue.....	Between Augustus and Hillside avenues.	Dorchester.	8	437	803 40	519 15	25 88	1,348 43	Private, clay.
Church street.....	At Hollywood road.....	Dorchester.	8	26	134 01	18 90	5 75	158 66	Public, clay.
Gothic street.....	From Shortman terrace.....	West Roxbury.	8	284	587 66	502 31	37 38	1,127 35	Private, rock.
Garfield street.....	From Washington street.....	West Roxbury.	8	233	690 57	230 88	.....	921 45	Private, gravel.
Clarendon park.....	From Metropolitan avenue.....	West Roxbury.	8	232	587 98	329 51	16 50	933 99	Private, clay.
Cedar street.....	At Walworth street.....	West Roxbury.	8	116	443 37	138 90	11 00	593 27	Private, clay.
Grandfield avenue.....	From Washington street.....	West Roxbury.	8	482	944 75	656 90	28 75	1,660 40	Private, ashfilled.
Midvale road.....	From Corey street.....	West Roxbury.	8	129	170 32	206 89	10 62	387 83	Public, clay.
Casper street.....	From Lasell street.....	West Roxbury.	8	210	129 87	281 78	22 00	733 65	Private sand.
Rivernoor street.....	From Gardner street.....	West Roxbury.	8	356	753 52	556 60	36 42	1,346 54	Public, gravel.
Montclair avenue.....	From Fletcher street.....	West Roxbury.	8	260	1,426 80	323 25	103 50	1,853 55	Private, rock.



Pershing road.....	Between Pond View avenue and Center street.	West Roxbury.	8	757	1,387 42	776 52	24 28	2,188 22	Private, loam and gravel.
Pender street.....	Between Lagrange and Dent streets..	West Roxbury.	8	366	738 18	363 63	48 56	1,150 37	Private, filled.
Hopkins road.....	Between Pond street and Walley road	West Roxbury.	8	825	1,712 71	981 76	76 63	2,771 10	Private, clay.
Cypress street.....	From Walworth street.....	West Roxbury.	8	98	196 59	110 00	11 00	317 59	Private, clay.
Beecher street.....	From Paul Gore street.....	West Roxbury.	8	229	462 46	560 87	16 69	980 02	Private, gravel.
Green Hill avenue.....	From Malcolm road.....	West Roxbury.	8	310	593 82	425 51	23 00	1,042 33	Private, clay.
Summer street.....	From Autumn street.....	West Roxbury.	8	148	395 65	573 96	38 50	1,008 11	Private, rock.
Ada avenue.....	Between Ashland and Seymour streets.	West Roxbury.	8	489	1,237 76	623 61	27 31	1,888 68	Private, gravel and clay.
Cranston road.....	At Church street.....	West Roxbury.	8	57	237 30	63 80	8 31	309 41	Private, sand and clay.
Pleasant street.....	Between Dent and Lagrange streets..	West Roxbury.	8	311	797 98	494 56	48 88	1,341 45	Private, clay.
Harwood street.....	Between Brookfarm road and Gren- ham street.	West Roxbury.	8	403	1,011 52	497 80	14 38	1,526 70	Private, gravel and clay.
Pershing road.....	From Washington street.....	West Roxbury.	8	294	422 77	230 40	7 19	660 36	Private, gravel.
Hillside avenue.....	Between Clarendon avenue and Crandall street.	West Roxbury.	8	160	300 64	183 64	8 63	492 91	Private, clay.
Willowdean avenue....	Between Weld street and Parkvale road.	West Roxbury.	8	641	1,112 31	763 60	48 56	1,924 47	Private, clay and rock.
View South avenue.....	From St. Rose street.....	West Roxbury.	8	177	520 13	219 05	22 28	761 46	Private, clay.
Prospect street.....	From Baker street.....	West Roxbury.	8	542	1,472 72	545 95	81 95	2,400 62	Private, sandy sump.
Whiting street.....	From Baker street.....	West Roxbury.	8	217	459 43	238 04	19 73	717 20	Private, sand and gravel.
Amherst street.....	Between Albano and Penfield streets	West Roxbury.	8	26	48 68	58 25	.....	106 93	Private, clay.
<i>Carried forward.....</i>			8	18,178	\$40,275 44	\$27,730 45	\$1,570 32	\$99,576 21	

# Cost of Extension of Main Pipe.—Continued.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Materials, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Remarks.
	<i>Brought forward</i> .....			18,178	\$40,275 44	\$27,730 45	\$1,570 32	\$69,576 21	
Rumford street.....	From Baker street.....	West Roxbury.	8	178	335 59	213 00	20 13	568 72	Private, gravel and clay.
Freeman street.....	From Washington street.....	West Roxbury.	8	217	759 63	261 50	63 25	1,084 38	Private, rock.
Weller street.....	Between Washington and Kittredge streets.	West Roxbury.	8	778	1,661 84	989 29	63 25	2,714 38	Private, filled land.
Cornalba terrace.....	From Poplar street.....	West Roxbury.	8	267	441 34	294 80	17 25	753 39	Private, sand and clay.
Malcolm road.....	Between Green Hill avenue and dead ends.	West Roxbury.	8	342	794 55	412 10	24 75	1,231 40	Private, sand and gravel.
Realtown road.....	From Willowdean avenue.....	West Roxbury.	8	56	157 67	50 40	6 07	214 14	Private, gravel and clay.
Ravenna road.....	Between Weld street and Cerdan avenue.	West Roxbury.	8	685	1,546 68	738 39	28 07	2,313 14	Private, clay.
Burnside road.....	Between Weld street and Peak Hill road.	West Roxbur	8	570	1,324 48	737 19	52 35	2,114 02	Private, clay.
Glenburnie road.....	Between Burnside and Cerdan ave- nues.	West Roxbury.	8	891	1,731 97	871 19	30 25	2,633 41	Private, clay.
Bellaire road.....	Between Cerdan and Burnside avenues.	West Roxbury.	8	807	1,609 78	864 91	24 28	2,498 97	Private, clay.
Varrick road.....	From Temple street.....	West Roxbury.	8	212	546 88	268 58	27 97	843 43	Private, gravel.
Alarie street.....	Between Spring and Centre streets...	West Roxbury.	8	472	1,221 96	551 79	72 84	1,846 59	Private, sand and clay.
Mansfield street.....	From Bates street.....	West Roxbury.	8	294	543 15	308 00	17 25	868 40	Private, clay hard pan.

Keith street.....	At Perham street.....	West Roxbury.	8	8	57 74	8 00	3 04	68 78	Private, clay.
New Park avenue.....	At West Roxbury Parkway.....	West Roxbury.	8	26	114 42	32 50	3 04	149 96	Public land, clay.
Summit road.....	Between Shaw street and Cottage avenue.	West Roxbury.	8	478	1,210 37	725 83	48 56	1,984 76	Private, gravel, clay.
Stinson road.....	Between Stinson street and Cottage avenue.	West Roxbury.	8	493	1,072 22	1,700 63	80 43	2,853 28	Private, rock.
Parkway avenue.....	Between West Roxbury Parkway...	West Roxbury.	8	279	610 38	291 00	15 09	916 47	Private, clay.
Bates street.....	Between Alpheus road and Beech street.	West Roxbury.	8	479	1,054 22	499 00	31 63	1,584 85	Private, clay.
Jeffers road.....	Between Mansfield street and Alpheus road.	West Roxbury.	8	417	860 14	436 98	28 75	1,325 87	Private, clay.
Cedar street.....	From Washington street.....	West Roxbury.	8	48	67 84	100 00	17 25	185 09	Private, clay.
Alpheus road.....	Between Jeffers road and Beech street.	West Roxbury.	8	254	503 23	405 00	28 75	936 98	Private clay, hard pan.
Palfrey street.....	From Brown avenue.....	West Roxbury.	8	55	242 02	61 00	5 75	308 77	Private, ash dump.
Morris street.....	From Market street.....	Brighton.	8	253	640 07	265 00	17 25	922 32	Private, clay.
Brookdale road.....	From Parsons street.....	Brighton.	8	391	639 56	409 00	23 00	1,071 56	Private, gravel and clay.
Goodenough street.....	East of Barker street.....	Brighton.	8	110	313 26	182 63	.....	495 89	Private, gravel.
Morris street.....	From Market street.....	Brighton.	8	107	212 73	148 82	40 97	402 52	Private, clay.
Lane park.....	From Foster street.....	Brighton.	8	534	1,031 53	766 30	112 13	1,909 96	Private, mixed filled.
Niles street.....	From Parsons street.....	Brighton.	8	266	498 88	449 53	24 28	972 69	Private, sand and gravel.
Dickerson road.....	From Washington street.....	Brighton.	8	97	137 56	193 50	24 28	355 34	Private, loam and clay.
Beacon street.....	Between Reservoir road and Newton line.	Brighton.	8	207	552 32	311 51	14 38	878 21	Public, clay.
<i>Carried forward.</i> .....			8	28,449	\$62,769 45	\$42,277 82	\$2,536 61	\$107,583 88	

# Cost of Extension of Main Pipe.— Continued.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Materials, etc.	Cost of Labor.	Cost of Inspec- tion.	Total Cost.	Remarks.
York street.....	<i>Brought forward</i> .....	.....	.....	28,449	\$62,769 45	\$42,277 82	\$2,536 61	\$107,583 88	
	Between Allston street and Wood- stock avenue.	Brighton.	8	379	858 47	492 82	17 25	1,368 54	Private, mixed filled.
Gerald road.....	From Gillard road.....	Brighton.	8	145	406 26	162 00	9 35	577 61	Private, clay.
Lane park.....	From Foster street.....	Brighton.	8	45	245 83	155 11	.....	400 94	Private, clay.
Blenford road.....	Between No. 28 and No. 30.....	Brighton.	8	17	152 75	104 10	.....	256 85	Public, asphalt.
Holton street.....	From Brooks street.....	Brighton.	8	201	386 10	219 22	17 25	622 57	Private, clay.
Dickinson road.....	From Washington street.....	Brighton.	8	323	917 92	453 54	39 64	1,411 10	Private, filled.
Morris street.....	From Market street.....	Brighton.	8	50	73 74	48 00	6 07	127 81	Private, clay.
Dana avenue.....	From Milton line.....	Hyde Park.	8	308	722 97	464 50	27 50	1,214 97	Public, gravel.
Pleasant View street...	Between Ashland street and Roanoke road.	Hyde Park.	8	841	1,731 41	1,599 09	203 35	3,533 85	Private, rock.
Deforest street.....	From West street.....	Hyde Park.	8	176	381 26	250 25	22 00	653 51	Private, clay.
Lodge Hill road.....	Between West and Goff streets.....	Hyde Park.	8	858	1,584 12	1,109 84	86 25	2,780 21	Private, clay.
Summer street.....	Between Parrott place and West street.	Hyde Park.	8	299	1,043 25	359 50	23 00	1,425 75	Private, gravel and rock.
Roanoke road.....	At Pleasant View street.....	Hyde Park.	8	28	115 54	52 61	3 04	171 19	Private, rock.
Coronado road.....	From Osceola street.....	Hyde Park.	8	78	107 62	101 55	6 07	215 24	Private, gravel.

Woodland road.....	From Rutledge road.....	Hyde Park.	8	94	292 25	427 58	50 36	770 19	Private, rock.
Rufing street.....	From Lodge Hill road.....	Hyde Park.	8	323	644 86	395 00	19 73	1,039 59	Private, clay.
West First street.....	Totals.....	South Boston.	8	32,614	\$72,433 80	\$47,672 53	\$3,067 47	\$123,173 80	
Nevada street.....	Between Dorchester avenue and A street.		10	334	\$1,542 97	\$741 45	\$48 56	\$2,332 98	Public, macadam.
Whitten street.....	Across Codman Hill avenue.....	Dorchester.	10	52	122 08	54 60	2 16	178 84	Private, clay.
Hilburn street.....	Across Adams street.....	Dorchester.	10	32	175 74	165 14	.....	340 88	Public, granite block and concrete base.
West Roxbury Parkway,	Between Clarendon and Metropolitan avenues.	West Roxbury.	10	279	759 11	465 58	26 59	1,251 28	Private, gravel and clay.
Lochdale road.....	Between Beach and Aldrich streets..	West Roxbury.	10	265	784 99	442 78	33 39	1,261 16	Public land, clay.
	From Washington street.....	West Roxbury.	10	344	843 75	471 78	17 25	1,332 78	Private, mud filled.
	Totals.....		10	1,306	\$4,228 64	\$2,341 33	\$127 95	\$6,697 92	
Dorchester avenue ....	Between Broadway and First street,	South Boston.	12	217	\$1,904 25	\$391 15	\$12 14	\$2,307 54	Public, gravel, granite block and concrete base.
Palmer street.....	Between Washington street and Harrison avenue.	Roxbury.	12	312	2,163 32	530 20	35 31	2,728 83	Public, gravel, granite block and concrete base.
Dennison street.....	Between Walnut avenue and Townsend street.	Roxbury.	12	259	1,411 07	582 60	42 49	2,036 16	Public, under construction.
Hurlcroft avenue.....	From Dorchester avenue.....	Dorchester.	12	297	1,125 41	337 12	41 73	1,504 26	Private, clay.
Ormond street.....	From Outlook road.....	Dorchester.	12	648	1,947 90	717 33	109 26	2,774 49	Private, clay.
Fuller street.....	Between Milton avenue and Washington street.	Dorchester.	12	290	279 51	494 01	42 49	816 01	Private, clay.
Elm avenue.....	Between Adams and Burgoyne streets.	Dorchester.	12	535	1,884 76	643 25	36 42	2,564 43	Private, clay.
	Carried forward.....		12	2,558	\$10,716 22	\$8,095 66	\$319 84	\$14,731 72	

# Cost of Extension of Main Pipe.—Continued.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Materials, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Remarks.
	<i>Brought forward.</i>			2,538	\$10,716 22	\$3,695 66	\$319 84	\$14,731 72	
Allendale street.	Between Hill Top and Milton streets.	Dorchester.	12	363	10,741 22	726 25	31 63	11,499 10	Private, gravel.
Ormond street.	At Outlook road.	Dorchester.	12	51	200 45	64 00	5 75	270 20	Private, clay.
Arbor View road.	From Malcolm road.	West Roxbury.	12	469	1,411 77	657 75	16 50	2,086 02	Private, clay.
Cottage avenue.	Between Centre street and 267 Cottage avenue.	West Roxbury.	12	148	458 42	651 44	69 00	1,178 86	Private, muck refuse, rock.
Church street.	Between Weld street and Hollywood road.	West Roxbury.	12	603	2,146 80	851 70	76 94	3,075 44	Public, rock.
Linden road.	Between Centre street and Cedar road.	West Roxbury.	12	1,242	4,025 51	2,718 61	71 50	6,815 62	Private, clay and rock.
Cheswick road.	From Ponoma avenue.	West Roxbury.	12	500	1,354 76	689 88	92 57	2,137 21	Private, sand and clay.
Rossmore road.	From Washington street.	West Roxbury.	12	396	1,193 33	589 20	44 00	1,826 53	Public, muck, sand.
Green Hill avenue.	Between Centre street and dead end.	West Roxbury.	12	1,154	3,883 08	1,656 41	57 06	5,596 55	Private, clay.
Hollywood road.	Between Church street and Willowdean avenue.	West Roxbury.	12	566	1,867 22	734 48	40 25	2,641 95	Private, clay.
Perham street.	From Lasell street.	West Roxbury.	12	374	1,153 50	422 56	57 67	1,633 73	Private, clay.
Lila road.	Between Louder's lane and Green Hill avenue.	West Roxbury.	12	974	2,868 02	1,445 22	38 50	4,351 74	Private, clay.
Louder's lane.	Between Centre street and Lila road.	West Roxbury.	12	626	2,064 51	854 78	46 06	2,965 35	Private, clay.
Winchester road.	Between Centre street and Green Hill avenue.	West Roxbury.	12	1,212	3,973 53	1,355 30	55 00	5,383 83	Private, clay.

Roy road.....	Between Lila and Winchester roads,	West Roxbury.	12	532	1,523 41	568 00	22 00	2,113 41	Private, clay.
Arbor View road.....	From Malcolm road.....	West Roxbury.	12	83	314 97	95 70	5 50	416 17	Private, clay.
Malcolm road.....	Between Green Hill avenue and dead end.	West Roxbury.	12	331	1,325 78	412 20	33 00	1,770 98	Private, clay.
Ledyard road.....	Between Willowdean avenue and West Roxbury Parkway.	West Roxbury.	12	277	805 72	550 24	31 87	1,387 83	Private, built on pipe and mud.
Willowdean avenue.....	Between Hollywood and Ledyard roads.	West Roxbury.	12	253	743 92	712 14	36 42	1,492 48	Private, built on pipe and mud.
Peak Hill road.....	Between Cedar avenue and Park Front road.	West Roxbury.	12	965	2,988 52	1,047 54	76 63	4,112 69	Private, clay.
Hackensack road.....	Across West Roxbury Parkway.....	West Roxbury.	12	76	184 90	200 00	21 25	406 15	Private, rock and clay.
Cerdan avenue.....	Between Wald street and Peak Hill avenue.	West Roxbury.	12	1,668	5,383 21	1,782 09	91 05	7,256 35	Private, clay.
Winchester road.....	From Centre street.....	West Roxbury.	12	783	2,529 09	1,001 16	38 50	3,568 75	Private, clay.
Dana road.....	Between Maple and Linden roads..	West Roxbury.	12	217	623 84	1,494 14	11 00	2,128 98	Private, clay and rock.
Maple road.....	Between Centre street and Dana road.	West Roxbury.	12	200	779 77	670 95	41 25	1,491 97	Private, rock and gravel.
Walworth street.....	At Cedar street.....	West Roxbury.	12	46	278 62	66 41	8 25	353 28	Public, clay.
Colonial road.....	From Blenford road.....	West Roxbury.	12	170	346 08	428 21	12 14	786 43	Private, clay.
Gillard road.....	Between Foster street and Seminary road.	Brighton.	12	449	1,186 21	525 96	26 60	1,738 77	Private, clay.
Belnel road.....	From Osceola street.....	Hyde Park.	12	29	111 97	36 25	76	148 98	Private, gravel.
Goff street.....	Between Asheville and Lodge Hill roads.....	Hyde Park.	12	345	851 62	544 68	28 75	1,425 05	Private, clay.
	Totals.....		12	17,660	\$68,035 97	\$27,248 91	\$1,507 24	\$96,792 12	

# Cost of Extension of Main Pipe.—Concluded.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Materials, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Remarks.
West Roxbury Parkway	Between Beech and Aldrich streets..	West Roxbury.	16	480	\$2,290 68	\$714 05	\$43 15	\$3,047 88	Public land, Metropolitan Dis- trict Commission, clay.
West Roxbury Parkway.	Between Church and Centre streets..	West Roxbury.	16	281	1,279 97	738 24	31 63	2,049 84	Public land, Metropolitan Dis- trict Commission, clay.
Park Front road.....	Between Weld street and Peak Hill road.....	West Roxbury.	16	477	2,294 47	848 00	36 42	3,178 89	Private, clay and rock.
Charles River Reserva- tion.....	Between Harvard street and Western avenue.....	Brighton.	16	1,812	3,149 11	9,582 51	126 51	12,858 13	Public land, State Reservation, sand.
	Totals.....	.....	16	3,050	\$9,014 23	\$11,882 80	\$237 71	\$21,134 74	
Porter street.....	Between Bremen and Lubec streets..	East Boston.	24	131	\$2,575 39	\$1,777 31	.....	\$4,352 70	Public, over bridge.
Charles street.....	Between Beacon and Boylston streets.....	City Proper	48	773	\$27,528 79	\$16,342 15	\$601 07	\$44,472 01	Public, granite block, concrete base.
Public Garden.....	Connecting with 40 foot pipe on Common across Charles' street east side of Pond.....	City Proper.	48	806	31,169 38	25,158 94	621 50	56,949 82	Public Garden and Common.
	Totals.....	.....	48	1,579	\$58,698 17	\$41,501 09	\$1,222 57	\$101,421 83	



# Cost of Replacement of Main Pipe.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Original Size. (Inch.)	Remarks.
Jefferson street.....	At Tremont street.....	City Proper.	6	20	\$69 56	\$91 50	.....	\$161 06	4	Public, under construction.
Baxter street.....	Between C and E streets.....	South Boston.	8	1,086	2,738 80	1,720 46	\$51 56	4,510 82	6	Public, macadam.
Haley street.....	At Dennison street.....	Roxbury.	8	35	98 21	61 25	3 04	162 50	6	Public, macadam.
Marsh street.....	At Myrtlebank avenue.....	Dorchester.	8	11	93 36	40 00	3 04	136 40	8	Public, clay.
Fuller street.....	West of Milton avenue.....	Dorchester.	8	498	1,041 41	705 50	57 67	1,804 58	6	Public, clay.
Alario road.....	Between Spring and Centre streets,	West Roxbury.	8	247	281 40	292 39	26 56	600 35	6	Private, clay.
Hopewell road.....	From Osceola street.....	Hyde Park.	8	6	24 14	8 00	3 03	35 17	4	Private, gravel.
Osceola street.....	Between River street and Belnel road.	Hyde Park.	8	984	1,956 10	1,256 89	118 54	3,331 53	4, 6, 8	Public, gravel.
	Totals.....	.....	8	2,867	\$6,233 42	\$4,084 49	\$263 44	\$10,581 35		
Pitts street.....	Between Green and Merrimac streets.	City Proper.	12	630	\$3,775 38	\$1,058 27	\$34 38	\$4,868 03	6	Public, granite block and con- crete base.
Dennison street.....	Between Walnut avenue and Town- send street.	Roxbury.	12	402	1,164 29	1,101 71	47 04	2,313 04	6	Public, under construction.
Circuit street.....	Between Washington street and Walnut avenue.	Roxbury.	12	1,774	6,859 63	3,803 60	122 38	10,785 61	6	Public, macadam.
Fuller street.....	Between Milton avenue and Wash- ington street.	Dorchester.	12	285	688 13	534 01	45 38	1,267 52	12	Public, clay.
Centre street.....	Between Green Hill avenue and Allendale street.	West Roxbury.	12	317	1,820 07	640 25	22 00	2,482 32	8	Public, clay.
Etna street.....	Between North Beacon and Elmira streets.	Brighton.	12	1,134	3,388 63	1,979 46	86 25	5,454 34	6	Public, macadam clay.
	Totals.....	.....	12	4,542	\$17,696 13	\$9,117 30	\$357 43	\$27,170 86		

# Cost of Relocation of Main Pipe.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Original Size. (Inch.)	Remarks.
Victory road.....	At Adams street.....	Dorchester.	8	18	\$108 02	\$179 47	.....	\$287 49	12	Public, macadam.
Hodgdon terrace.....	From Midvale road.....	West Roxbury.	8	26	28 54	76 25	\$3 04	107 83	8	Private, clay and gravel.
Dickerson road.....	From Washington street.....	Brighton.	8	14	137 56	193 50	24 28	355 34	8	Private, clay and loam.
	Totals.....		8	58	\$274 12	\$449 22	\$27 32	\$750 66		
Hollis street.....	At Tremont street.....	City Proper.	12	22	\$247 87	\$333 75	.....	\$581 62	16	Public, macadam.
Moss Hill road.....	At Pond street.....	West Roxbury.	12	14						
Pond street.....	At May street.....	West Roxbury.	12	46	648 44	*	\$149 50	797 94	12	Public, clay.
May street.....	At Pond street.....	West Roxbury.	12	139						
	Totals.....		12	221	\$896 31	\$333 75	\$149 50	\$1,379 56		

\* Labor paid for by Sewer Service.

## WATERWORKS STATISTICS.—CITY OF BOSTON.

FOR THE FISCAL YEAR ENDING DECEMBER 31, 1926.

## DISTRIBUTION.

*Mains.*

Kind of pipe: Cast iron, wrought iron.  
 Sizes: 2-inch to 48-inch.  
 Extended, miles, 11.17.  
 Size, enlarged, miles, 1.36.  
 Total miles now in use, 924.56.  
 Public hydrants added, 173.  
 Public hydrants now in use, 10,473.  
 Stop gates added, 164.  
 Stop gates now in use, 14,096.  
 Stop gates smaller than 4-inch, 33.  
 Number of blow-offs, 721.  
 Range of pressure on mains, 30 to 90 pounds.

*Service.*

Kind of pipe and size, lead and lead lined:  $\frac{1}{2}$ -inch to 2-inch cast iron.  
 2-inch to 12-inch, wrought iron and cement lined:  $\frac{3}{4}$ -inch to 2-inch.  
 Extended, feet, 39,606.  
 Total miles now in use, 619.81 miles.  
 Service taps added, 1,802.  
 Total service taps now in use, 116,003.

## High Pressure Fire System Extension, 1926.\*

Appropriations to December 31, 1926. ....			\$2,128,000 00
Expenditures to December 31, 1925. ....		\$2,126,938 01	
Expenditures during the fiscal year ending December 31, 1926:			
Extension:			
Hydrant, Canal street. ....	\$350 00		
Maintenance:			
Main pipe repairs. ....	75 99		
Stock purchased. ....	254 00		
Total expenditures 1926. ....		679 99	
Total expenditures to December 31, 1926. ....			2,127,618 00
Balance unexpended December 31, 1926. ....			\$382 00

\* For further expenditures on account of High Pressure Fire Service during 1926, see expenditures under appropriation for Extension of Water Mains.

## APPENDIX F.

REPORT OF THE BOSTON AND CAMBRIDGE  
BRIDGE COMMISSION.

*To the Honorable the Mayor:*

SIR,—As Commissioner for the City of Boston, I respectfully submit herewith the annual report of the Boston and Cambridge Bridge Commission for the year ending December 31, 1926.

The commission is composed of two members, one appointed by the Mayor of the City of Boston and the other by the mayor of the city of Cambridge, under provisions of chapter 467, Acts of 1898.

The commission has charge of the maintenance of the following-named bridges between Boston and Cambridge: Anderson, Cambridge, Prison Point, River Street and Western Avenue to Cambridge. River Street Bridge and Western Avenue Bridge were returned to the control of the commission, after being rebuilt by the Metropolitan District Commission, on December 1, 1926. Brookline Street Bridge, in process of reconstruction by the Metropolitan District Commission, has had the lighting cut off so that lighting bills are not now being paid by the commission.

As there is no separate appropriation made for the City of Boston's portion of the expenses of this commission, the same is taken from the appropriation for the Bridge and Ferry Division, Bridge Service. The amount expended during the fiscal year ending December 31, 1926, was \$18,983.08.

## ANDERSON BRIDGE (OVER CHARLES RIVER).

The paving on the existing bridge, which is of wood block on concrete base, has had a considerable amount of repairs made to it. It is only a question of time when this paving will have to be relaid. Some necessary pointing was done to the masonry and some broken artificial stone caps were replaced.

## CAMBRIDGE STREET (OVER CHARLES RIVER).

The stone work of the towers was repointed.

## PRISON POINT BRIDGE.

The channelway under this bridge was blocked by the improvements being made by the Boston & Maine Railroad and no more boats will pass through the channelway. It is therefore advisable that the bridge be strengthened, a new flooring placed and a new type of surfacing laid so that the constant repairs and patching of this structure may be eliminated.

## RIVER STREET BRIDGE.

This bridge, a three-arched reinforced concrete bridge, with bituminous macadam paving, is now in the hands of this commission. There are no car tracks on this structure.

## WESTERN AVENUE BRIDGE (TO CAMBRIDGE).

This bridge, a three-arched reinforced concrete bridge, with bituminous macadam paving, is now in the custody of this commission. This bridge has two street car tracks on it.

Respectfully submitted,

JAMES H. SULLIVAN,  
*Commissioner for the City of Boston.*

**Boston and Cambridge Bridges, Expenditures for the Year Ending December 31, 1926.**  
*Being the Portion Paid by the City of Boston, Which is One Half of the Total Expenditure.*

	Administration.	Anderson Bridge.	Cambridge Street-Bridge.	Cambridge Bridge.	Essex Street-Bridge.	Prison Point Bridge.	Western Avenue Bridge.	Totals.
Salaries.....	\$250 00	\$814 43	.....	\$2,892 67	.....	\$6,260 24	.....	\$10,217 34
Inspection.....	.....	138 00	.....	202 00	.....	266 00	.....	606 00
Repairs.....	.....	396 81	.....	1,647 93	.....	2,293 69	.....	4,338 43
Lumber.....	.....	.....	.....	.....	.....	1,482 81	.....	1,482 81
Light.....	.....	299 21	\$20 13	1,536 57	\$176 92	7 03	\$22 91	2,062 77
Fuel.....	.....	.....	.....	.....	.....	54 00	.....	54 00
Supplies.....	.....	.....	.....	28 94	.....	108 47	.....	137 41
Printing and stationery.....	18 02	.....	.....	.....	.....	.....	.....	18 02
Telephone and traveling expenses.....	66 30	.....	.....	.....	.....	.....	.....	66 30
Advertising.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.....	\$334 32	\$1,648 45	\$20 13	\$6,308 11	\$176 92	\$10,472 24	\$22 91	\$18,983 08

**Monthly Summary of Draw Openings, Boston and Cambridge  
Bridges, January 1 to December 31, 1926.**

	PRISON POINT BRIDGE.		
	Vessels.	Cargoes.	Openings.
January.....	0	0	0
February.....	0		0
March.....	10	1	6
April.....	0	0	0
May.....	14	2	9
June.....	0	0	0
July.....	0	0	0
August.....	0	0	0
September.....	0	0	0
October.....	0	0	0
November.....	1	0	1
December.....	0	0	0
Totals.....	25	3	16

NOTE.— Use of the draw span of this bridge was discontinued November 30, 1926.

**1926.**

**Bridges, Repairs, Etc., Repointing Stone Work of Towers, Cambridge  
Bridge. (Work Done by Maurice M. Devine.)**

*Being the Portion Paid by the City of Boston, Which is One Half of the  
Total Expenditure.*

Labor . . . . .	\$73 75
Cement . . . . .	85
Sand . . . . .	1 50
	<hr/>
	\$76 10

## Annual Summary of Draw Openings, Boston and Cambridge Bridges, January 1, 1926, to December 31, 1926.

BRIDGE.	TUGS.			BARGES.			ALL OTHERS.			TOTAL VESSELS.			Cargoes.	Openings.
	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.		
Prison Point.....	16	0	16	6	0	6	3	0	3	25	0	25	3	16
Totals.....	16	0	16	6	0	6	3	0	3	25	0	25	3	16

NOTE.— Use of the draw span of this bridge was discontinued November 30, 1926.









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